

SONY®



Sony Broadcast General Catalogue 1984

NTSC/PAL/SECAM/PAL-M

BETACAM

BVW-3/3P/3S/3PM	1
BVW-1/1P/1S	1
BVV-1/1PS	2
BVP-3/3P/3S/3PM	2
BVP-1/1P/1S	2
VA-1V/1VP/1VS	2
VA-1	2
CA-3	2
CA-300	2
BVW-20/20P/20S	3
BVW-40/40P/40S	4
BVW-10/10P/10S/10PM	4

1-INCH VIDEO TAPE RECORDERS

BVH-2500/2500PS	6
BVH-2000/2000PS/2000PM	8
BKH-2011/2012/2013/2014	10
BKH-2015/2016/2017/2018/2100	10
BKH-2300/2400	10
HT-2000	10
BK-2006/2007/2008	10
RCC-5G/10G/30G	10
BVH-500A/500APS/500APM	11
BVH-1180/1180PS	12
DTR-2000	12
BVR-500	13
CLP-550/550PS	13
HT-500A	13

U-matic VIDEOCASSETTE RECORDERS

BUU-820/820P/820S/820PM	14
BUU-800/800P/800S/800PM	15
BK-801/802/803/804/805/806/811	15
RCC-5G/10G/30G	15
BVR-820	16
BVR-800	16
BUU-110/110P/110S/110PM	18
BUU-50/50P/50S	19
S-76	19

DIGITAL VIDEO MULTI-PROCESSORS

BVX-30/30PM	20
BVR-10	20
BVR-30	20
BK-31	20

COLOR CAMERAS

BVP-330A/330AP/330AS/330APM	21
BVP-3/3P/3S/3PM	22
BVP-250/250P	23
BVP-300A/300AP/300AS/300APM	24
BVP-110/110P/110S/110PM	25
BVP-1/1P/1S	26

CAMERA ACCESSORIES

CCU-300/300P/300PM	27
DCU-300/300P/300PM	27
BVF-5	28
BVF-50/50CE	28
BK-302/303/305	28
MEMORY BATTERY	28
DC-210	29
DC-300	29
DC-310	29
RMM-301	29

CONVERSION LENSES

A12 × 9BERM	30
A14 × 9BERM	30
A17 × 9BERM	30
A22 × 12.5BERM	30
A17 × 8.5BESM	30
J13 × 9B4 IRS	30
J15 × 9.5B4 KRS	30
J15 × 9.5C KRS	30
J15 × 8.5BIE	30
J20 × 8.5BIE	30
N10 × 11BRM	30
N14 × 9ERM	30
J13 × 9C IRS	30

MONITORS

BVM-1900/2000P/2000S	32
BVM-1201/1301P/1301S/1301PM	33
BVM-2002PS	34
BVM-1302P	34
BVM-4050	35

EDITORS

BVE-5000/5000P	36
BVE-3000/3000P	36
BVE-800	37
BVS-500	37
BK-807/808/809/810	38
BKE-3001/3002/3005/3006	38
BK-1002	38
BK-5001/5002A/5003	38
BK-5021/5022A/5031/5032	38
BK-5004/5005/5006	38
CDP-5001/5001CE	38

TIME BASE CORRECTORS

BVT-2000/2000P/2000S/2000PM	41
BVT-800/800PS(P)/800PS(S)	41
BKH-2100/2300/2400	42

TIME CODE GENERATOR/READERS

BVG-100/100PS	43
BK-101/102/103	43
BVG-1500/1500PS	44
BVG-1600/1600PS	44

ACCESSORIES

AC-500/500CE	45
BC-210/210CE	45
BP-90	45
BC-1W/1WCE	46
DC-100	46
NP-1	46
CCJ cables	47
CCQ cables	47
CCT cables	47
CCW cables	47
CCY cable	47
CCZ cables	47
CCQZ cables	47
CCZO cables	47
RCC-C cables	48
RCC-G cables	48
VDC-5	48

V-16 SERIES 1-INCH VIDEO TAPES

V-16-18A/34A/64A/96A	49
V-16-18SP/34SP/64SP/96SP	49
V-16-126/156/188	49
R1-9V/10V/11V/12V/14V	49
CL-16/16SP	49

BR SERIES U-matic TAPES AND BETACAM TAPES

KCS-10BR/20BR	50
KCA-10BR/20BR/30BR/60BR	50
HG-10/20	50
KC-1C	50
KCS-1C	50
CL-25/25SP	50
HG-5CL	50

WIRELESS MICROPHONE SYSTEMS

WRT-27/27A	51
WRT-57	51
WRR-27	51
BTA-27	51

MICROPHONES AND AUDIO EQUIPMENT

C-74	52
C-76	52
F-760	52
F-115	52
ECM-50PSW/PBW	52
B-302	52
CRS-3N/3P	52
AC-148F	52
EC-10C2/20C2/30C2	52
TC-D5 PRO	53
MX-P42	53

BETACAM VTR IN CAMERA**BVW-3/3P/3S/3PM** Betacam with 3-tube system
(NTSC) (PAL) (SECAM) (PAL-M)

Lens is optional

BVW-1/1P/1S Betacam with single-tube system
(NTSC) (PAL) (SECAM)

Lens is optional

Betacam

- Compressed time division multiplex recording system
- Very lightweight and small packaging
 - Single tube configuration BVW-1 6.8 kg (15 lb)*
 - Three tube configuration BVW-3 8.5 kg (18.7 lb)*
- 20 minutes (NTSC/PAL-M), 24 minutes (PAL/SECAM) recording time
- Separable camera and VTR units
 - as an independent camera or recorder with interconnecting interface
- Separated time code track and built-in time code generator
- Viewfinder indication for easy and safety operation
- Uses 1/2-inch HG-20 broadcast-quality high performance Beta cassette
- Built-in unidirectional high sensitivity microphone
 - * includes VF, NP-1 battery, HG-20 tape.

BVW-3 Betacam with three-tube system

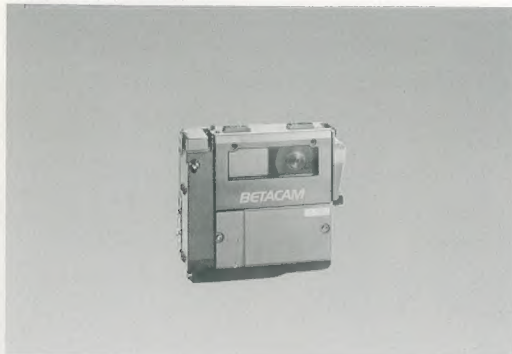
- 3-tube, 2/3-inch MF "SATICON"
- High resolution of 650 TV lines at center
 - also improved corner resolution
- Unique auto centering without using test chart
- Auto white balance with 3-position memory
- Accept 2 types of lens connectors
 - 12-pin or 6-pin
- Various automatic functions

BVW-1 Betacam with single-tube system

- Single tube, HBST (High Band SMF Trinicon)
- Compact and lightweight
- Low power consumption; only 22W
- Cableless packaging
- 45 minutes continuous operation with NP-1 battery
- Auto white balance with 3-position memory
- Automatic pick-up tube protection shutter

BVV-1/1PS Betacam Recorder Unit

(NTSC/PAL-M) (PAL/SECAM)



ADAPTORS FOR RECORDER UNIT

VA-1V (NTSC)/1VP (PAL)/1VS (SECAM) Component/Composite Adaptor
VA-1 (NTSC/PAL/SECAM/PAL-M) Component Adaptor

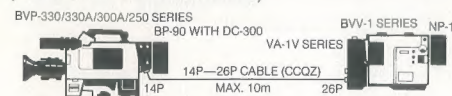


SPECIFICATIONS OF ADAPTORS

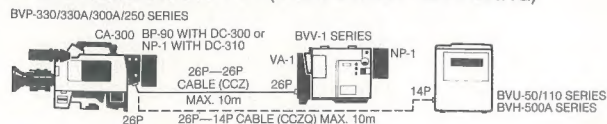
	VA-1V/1VP/1VS	VA-1	CA-3	CA-300
Dimensions	90(W) × 200(H) × 100mm(D) (3.5 × 8 × 3.9")	90(W) × 200(H) × 46mm(D) (3.5 × 8 × 1.8")	90(W) × 178(H) × 75mm(D) (3.5 × 7 × 2.9")	59(W) × 130(H) × 67mm(D) (2.3 × 5.1 × 2.6")
Weight	1.3 kg (2 lb 14 oz)	470 g (1 lb)	550 g (1 lb 3 oz)	350 g (12 oz)
Power consumption	Component: 3W (max.) Composite: 8.5W (max.)	1.08W	0.85W with BVP-3 0.5W with BVP-1	0.64W

TYPICAL CONNECTIONS

EXAMPLE (A) CONNECTION WITH CURRENT COLOR CAMERA (COMPOSITE RECORDING)

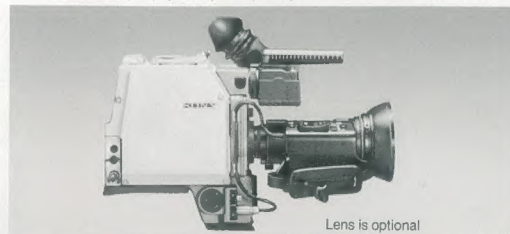


EXAMPLE (B) CONNECTION WITH CURRENT COLOR CAMERA/ CA-300 CAMERA ADAPTOR (COMPONENT RECORDING)



BVP-3/3P/3S/3PM Betacam Camera Unit, 3-tube

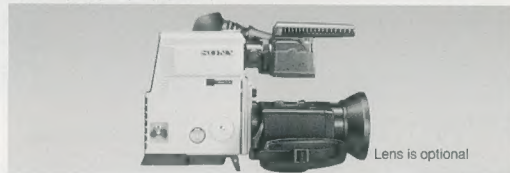
(NTSC) (PAL) (SECAM) (PAL-M)



Lens is optional

BVP-1/1P/1S Betacam Camera Unit, single-tube

(NTSC) (PAL) (SECAM)



Lens is optional

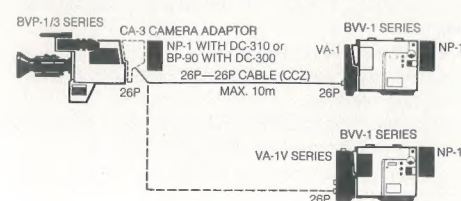
ADAPTORS FOR CAMERA UNIT

CA-3 Adaptor for BVP-1/3 series

CA-300 Adaptor for BVP-250/300/330 series



EXAMPLE (C) BETACAM SEPARATE OPERATION



PORTABLE PLAYER

BVW-20/20P/20S Betacam Portable Player

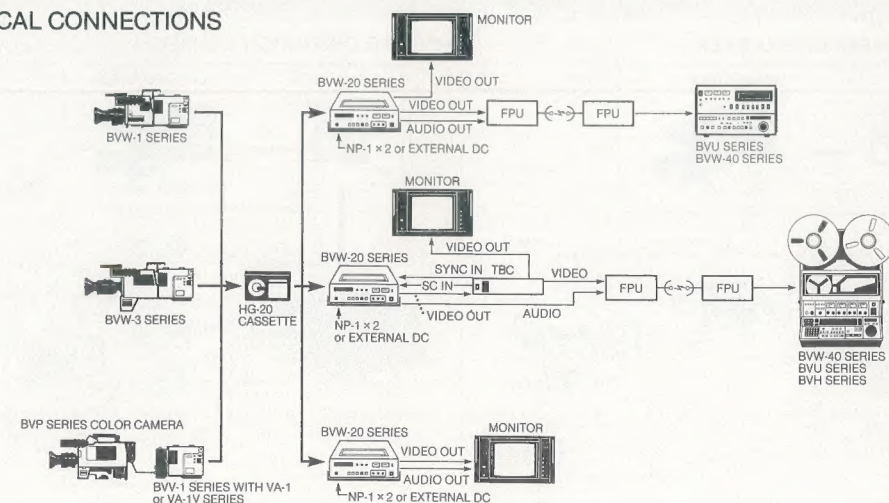
(NTSC) (PAL) (SECAM)



- Compact and lightweight: 8.6 kg (19 lb) with batteries and tape
- Location replay for monitoring
- Immediate transmission via microwave link in field operation
- 80 minutes continuous operation with two NP-1 batteries
- Swing search function: approx. ± 5 times normal speed re-

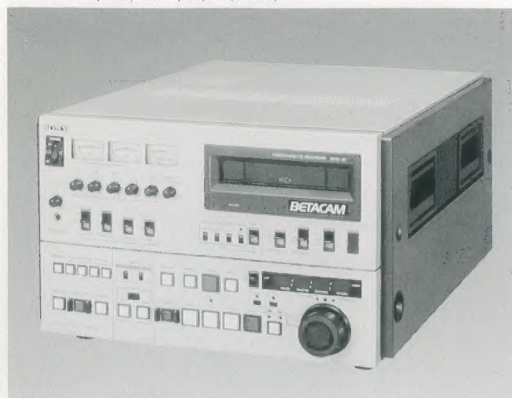
- cognizable picture
- CTDM (Compressed Time Division Multiplex) Dub output
- Built-in SMPTE/EBU time code reader
- Provision for external TBC
- Two audio meters for precise audio level adjustment
- Warning indicators of battery status, tape slack, and condensation

TYPICAL CONNECTIONS



BVW-40/40P/40S Betacam Editor

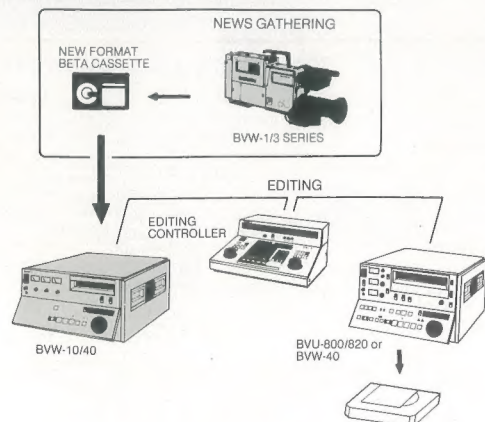
(NTSC) (PAL) (SECAM)



- Built-in full scale editing function
- Direct interface (RS-422) with:
 - BVW-10/40 Betacam
 - BVH-2000 1" VTR
 - BUV-800/820 series VTR
 - BVE-800/3000/5000 editor
- 36-pin parallel interface with:
 - BVE-500/BVU-200 or BVR-510A
- Independent time code track
 - time code re-insertion capability
- Plug-in SMPTE/EBU time code generator/reader
- Direct dubbing to BVU series U-matic (7-pin)
- CTDM dubbing in/out (12-pin)
- Built-in TBC with D.O.C.
- Jog/Shuttle mode function

TYPICAL CONNECTIONS

EFP/ENG OPERATION EXAMPLE 1



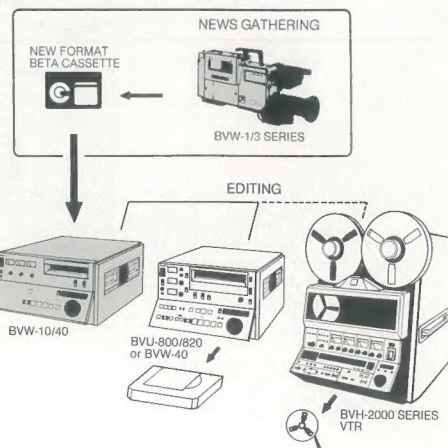
BVW-10/10P/10S/10PM Betacam Player

(NTSC) (PAL) (SECAM) (PAL-M)



- Direct interface (RS-422) with:
 - BVW-10/40 Betacam
 - BVH-2000 1" VTR
 - BUV-800/820 series VTR
 - BVE-800/3000/5000 editor
- 36-pin parallel interface with:
 - BVE-500/BVU-200 or BVR-510A
- Built-in TBC with D.O.C.
- Shuttle mode picture search function:
 - $\frac{1}{30}$, $\frac{1}{10}$, $\frac{1}{5}$, $\frac{1}{2}$, 2, 5, 10 time forward/reverse
- Jog mode function
- Recognizable color picture up to ± 5 times normal speed
- Built-in SMPTE/EBU time code reader
- CTDM dubbing output (12-pin)
- Direct dubbing to BVU series U-matic (7-pin)

EFP/ENG OPERATION EXAMPLE 2



SPECIFICATIONS

CAMERA UNIT

	BVP-1 (NTSC)	BVP-1P/1S (PAL/SECAM)	BVP-3/3PM (NTSC/PAL-M)	BVP-3P/3S (PAL/SECAM)
Dimensions				
height mm	178 (7")	178 (7")	240 (9.4")	240 (9.4")
width mm	90 (3.5")	90 (3.5")	105 (4.1")	105 (4.1")
depth mm	156 (6.1")	156 (6.1")	210 (8.3")	210 (8.3")
Weight kg	3.95 (8 lb 11 oz)*1	3.95 (8 lb 11 oz)*1	4.3 (9 lb 8 oz)*2	4.3 (9 lb 8 oz)*2
Power requirements	DC 12V	DC 12V	DC 12V	DC 12V
Power consumption	11W	11W	20W	20W (PAL), 22W (SECAM)
Pick-up tube	$\frac{2}{3}$ -inch HBST $\times 1$		$\frac{2}{3}$ -inch Saticon $\times 3$	
Horizontal resolution	400 TV lines	400 TV lines	650 TV lines	650 TV lines
Sensitivity	2000 lux, F 4.0 at 89.9% reflectance		2000 lux, F 4.0 at 89.9% reflectance	
Minimum illumination	80 lux with F1.6, +12dB		30 lux with F1.4, +18dB	
S/N ratio	54dB (Typical)	53dB (Typical)	58dB (Typical)	56dB (Typical)
Registration				
zone-1	Free	Free	0.1%	0.1%
zone-2	Free	Free	0.15%	0.15%
zone-3	Free	Free	0.3%	0.3%

*1: With 10 \times zoom lens and viewfinder *2: Without lens

RECORDER UNIT

	BVV-1 (NTSC/PAL-M)	BVV-1PS (PAL/SECAM)
Dimensions		
height mm	203 (8")	203 (8")
width mm	112 (4.4")	112 (4.4")
depth mm	232 (9.1")	232 (9.1")
Weight*1	4.2 kg (9 lb 4 oz)	
Power requirements	DC 12V $\pm 1\%$	
Power consumption	11W (12V, 0.9A)	
Tape speed	11.86cm/sec	10.15cm/sec
Writing speed	6.9m/sec	5.7m/sec
Wow & flutter	Less than 0.15%	Less than 0.15%
Recording time*2	20 min.	24 min.
S/N ratio		
Luminance	48dB	46dB
Chrominance	50dB	49dB
Frequency response	50Hz to 15kHz ± 3.0 dB	
S/N ratio	50dB (at 3% distortion level)	

*1: With battery pack (NP-1) and cassette tape (HG-20)

*2: With HG-20 videocassette

PLAYER, PORTABLE PLAYER and EDITOR

	PLAYER		PORTABLE PLAYER		EDITOR	
	BVW-10/10PM (NTSC/PAL-M)	BVW-10P/10S (PAL/SECAM)	BVW-20*3 (NTSC)	BVW-20P/20S*3 (PAL/SECAM)	BVW-40*3 (NTSC)	BVW-40P/40S*3 (PAL/SECAM)
Dimensions						
height mm	239 (9.4")	452 (17.8")	128 (5")	333 (13.1")	283 (11.1")	452 (17.8")
width mm	580 (22.8")	580 (22.8")	333 (13.1")	378 (14.9")	452 (17.8")	580 (22.8")
Weight	30 kg (66 lb 2 oz)	30 kg (66 lb 2 oz)	8.6 kg (19 lb)*1	8.6 kg (19 lb)*1	35 kg (77 lb 3 oz)	35 kg (77 lb 3 oz)
Power requirements	AC 90 - 265V (48 - 64Hz)		DC 12V		AC 90 - 265V (48 - 64Hz)	
Power consumption	160W max.		25W		200W max.	
Tape speed	11.86cm/sec	10.15cm/sec	11.86cm/sec	10.15cm/sec	11.86cm/sec	10.15cm/sec
Wow & flutter	Less than 0.15%		Less than 0.15%		Less than 0.15%	
Operating time	—		Approx. 80 minutes with two NP-1		—	
Recording or playback time*2	20 min.	24 min.	20 min.	24 min.	20 min.	24 min.
F. FWD time*2	Less than 90 sec		Less than 150 sec		90 sec	110 sec
Rewind time*2	Less than 90 sec		Less than 150 sec		90 sec	110 sec
Band width	30Hz to 4.1MHz ± 3 dB		30Hz to 4.1MHz ± 3 dB		30Hz to 4.1MHz ± 3 dB	
Luminance	30Hz to 1.5MHz ± 3 dB		30Hz to 1.5MHz ± 3 dB		30Hz to 1.5MHz ± 3 dB	
Chrominance (R-Y/B-Y)	30Hz to 1.5MHz ± 3 dB		30Hz to 1.5MHz ± 3 dB		30Hz to 1.5MHz ± 3 dB	
S/N ratio						
Luminance	48dB	46dB	48dB	46dB	48dB	46dB
Chrominance	50dB	49dB	50dB	49dB	50dB	49dB
Frequency response	50Hz to 15kHz ± 3.0 dB		50Hz to 15kHz ± 3.0 dB		50Hz to 15kHz ± 3.0 dB	
S/N ratio	50dB (Dolby off) at 3% distortion level		50dB (Dolby off) at 3% distortion level		50dB (Dolby off) at 3% distortion level	
Distortion	Less than 2%		Less than 2%		Less than 2%	

*1: With two battery packs (NP-1) and cassette tape (HG-20)

*2: With HG-20 videocassette *3: Preliminary specifications

Dolby is a registered trademark of Dolby Laboratories.

1-INCH VIDEO TAPE RECORDERS

(PRELIMINARY)
BVH-2500/2500PS 1-inch VTR
(NTSC) (PAL)



- Various Δt recording mode:
 - STILL—Records or replaces a selected field or frame
 - STEP—Steps forward one time increment and records or replaces a selected field or frame
 - SLOW—Records at speeds from $\frac{1}{60}$ to $\frac{9}{60}$ normal, set by the variable speed control.
- No preroll for Δt recording
- High picture quality SMPTE/EBU type C format in any record mode
- Standard real time recording
- Instantaneous and repeatable rewriting function using a new erasable DT head
- Approx. 400,000 field or 200,000 frame recording capability with 2-hour reel

- Provided with all features present in a BVH-2000
- Built-in time code generator/reader

Δt RECORDING APPLICATIONS

- STILL : Video disc mastering
 - Data filing
 - Electronic slide storage, etc.
- STEP : Computer graphic animation
 - Studio camera animation, etc.
- SLOW: Various scientific analysis, etc.



PRELIMINARY SPECIFICATIONS OF BVH-2500 SERIES

	BVH-2500	BVH-2500PS
General	Power requirements	AC 100 - 120V $\pm 10\%$
	Power consumption	550W max
	Operating temperature	5°C to 40°C (41°F to 104°F)
	Humidity	10 - 90% RH (non-condensing)
	Weight	70 kg (155 lb)
	Dimensions (including handle & foot)	570(W) \times 680(H) \times 588mm(D) (22.5 \times 26.8 \times 23.2")
	Recording system	High Band FM Recording
	Recording heads	1.5-Head System 1 head for Video track, 1 head for Sync track
	Track	1 Video track/1 Sync track/2 Audio tracks/ 1 Time code or cue track (Audio-3)/1 Control track
	Tape speed	24.4cm/sec
	Writing speed (Relative speed)	25.59m/sec
	Recording time	128min. with 11.75-inch reel
	Time base stability	Within 3 μ sec p-p
	Servo lock time	Approx. 2 sec (with frame capstan servo mode from standby mode)
Video	Tape timer accuracy	± 1 frame (with continuous control track)
	Fast forward/Rewind time (Transfer time)	Within 110 sec (with 1 hour tape)
	Recommended tapes	Sony's 1-inch High Density Tape or equivalent
	Reel size	NAB Standard (Max. 11.75-inch type)
	Video band width	Flat to 4.2MHz: ± 0.5 dB 4.5MHz: -3dB
	S/N ratio	Better than 48dB (unweighed), self recording Better than 47dB (unweighed), interchanged base [peak-peak composite video to rms noise measured with a Rohde & Schwarz noise meter]
	Differential gain	Less than 4% (with Sony TBC)
	Differential phase	Less than 4 degree (with Sony TBC)
	Transient response	Less than 1
	"K" factor (2T pulse) Tilt (Hor. & Vert.)	Less than 1%
	Moire	Less than -40dB (75% Color Bars)
	Chrominance/Luminance delay	Less than 20 ns
	Low frequency linearity	Less than 2%
	Audio frequency response	CH-1, CH-2 & CH-3 50Hz - 15kHz $\frac{1}{2}$ μ B 200Hz - 7.5kHz ± 1.0 dB
Audio	S/N ratio	CH-1 & CH-2 Better than 56dB (from 3% distortion level) CH-3 Better than 50dB (from 3% distortion level)
	Distortion (at 1kHz)	CH-1, CH-2 & CH-3 Less than 1% (at operating level)
	Wow & flutter	Less than 0.1% (0.5 - 200Hz NAB unweighed)
	Crosstalk (at 1kHz)	Between any two channels Less than -60dB

Design and specifications subject to change without notice.

1-INCH VIDEO TAPE RECORDERS

BVH-2000/2000PS/2000PM 1-inch VTR



Control panel and side panels are optional

BVH-2000

- Plug-in TBC (option)
 - 1Hp-p window correction
 - Recognizable B/W picture, up to ± 50 times normal speed
- High-speed Dynamic Tracking System
 - Wide DT range from -1 to $+3$ times normal speed
 - Programmed play
 - DT variable memory function
- Easy Threading
 - New head gate system with precise cross roller guide
- Three types of control panel (option)
- Two-hour recording and playback
- Plug-in time code board (option)
- Full scale editing facility
- Versatile system interface
- New tape transport
- Front operation and improved serviceability
- Compact and lightweight

- Audio Ch-4 capability (PS model only)
- Self diagnostic system

Supplied accessories
50-pin connector for REMOTE OUT-3
37-pin connector for MONITOR SELECT
Empty reel
Extension board
Operation and maintenance manual



SPECIFICATIONS OF BVH-2000 SERIES

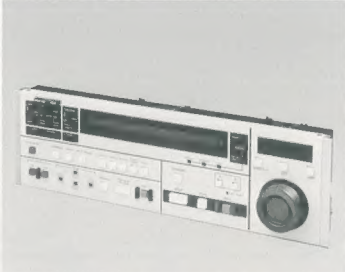
	BVH-2000	BVH-2000PS	BVH-2000PM
Power requirements	AC 100 - 120V $\pm 10\%$	AC 100/120/220/240V $\pm 10\%$	AC 100/120/220/240V $\pm \%$
Power consumption	550W max	550W max	550W max
Operating temperature	5°C to 40°C (41°F to 104°F)	5°C to 40°C (41°F to 104°F)	5°C to 40°C (41°F to 104°F)
Humidity	10 - 90% RH (non-condensing)	10 - 90% RH (non-condensing)	10 - 90% RH (non-condensing)
Weight	70 kg (155 lb)	70 kg (155 lb)	70 kg (155 lb)
Dimensions (including handle & foot)	570(W) \times 680(H) \times 588mm(D) (22.5 \times 26.8 \times 23.2")	570(W) \times 680(H) \times 588mm(D) (22.5 \times 26.8 \times 23.2")	570(W) \times 680(H) \times 588mm(D) (22.5 \times 26.8 \times 23.2")
Recording system	High Band FM Recording	High Band FM Recording	High Band FM Recording
Recording heads	1.5-Head System 1 head for Video track, 1 head for Sync track	1.5-Head System 1 head for Video track, 1 head for Sync track	1.5-Head System 1 head for Video track, 1 head for Sync track
Track	1 Video track/1 Sync track/2 Audio tracks/ 1 Time code or cue track (Audio-3)/ 1 Control track	1 Video track/1 Sync track/3 Audio tracks/ (one track, option)/1 Time code or cue track (Audio-3)/1 Control track	1 Video track/1 Sync track/2 Audio tracks/ 1 Time code or cue track (Audio-3) 1 Control track
Tape speed	24.4cm/sec	23.98cm/sec	24.4cm/sec
Writing speed (Relative speed)	25.59m/sec	21.39m/sec	25.59m/sec
Recording time	126min. with 11.75-inch reel	128min. with 11.75-inch reel	126min. with 11.75-inch reel
Time base stability	Within 3 μ sec p-p	Within 3 μ sec p-p	Within 3 μ sec p-p
Servo lock time	Approx. 2 sec (with frame capstan servo mode from standby mode)	Approx. 3 sec (with 4-field lock mode from standby mode)	Approx. 3 sec (with 4-field lock mode from standby mode)
Tape timer accuracy	± 1 frame (with continuous control track)	± 1 frame (with continuous control track)	± 1 frame (with continuous control track)
Fast forward/Rewind time (Transfer time)	Within 110 sec (with 1 hour tape)	Within 110 sec (with 1 hour tape)	Within 110 sec (with 1 hour tape)
Recommended tapes	Sony's 1-inch High Density Tape or equivalent	Sony's 1-inch High Density Tape or equivalent	Sony's 1-inch High Density Tape or equivalent
Reel size	NAB Standard (Max. 11.75-inch type)	NAB Standard (Max. 11.75-inch type)	NAB Standard (Max. 11.75-inch type)
Video band width	Flat to 4.2MHz: ± 0.5 dB 4.5MHz: -3 dB	Flat to 5MHz: ± 0.5 dB 5.5MHz: -3 dB	Flat to 4.2MHz: ± 0.5 dB 4.5MHz: -3 dB
S/N ratio	Better than 48dB (unweighed), self recording Better than 47dB (unweighed), interchanged base [peak-peak composite video to rms noise measured with a Rohde & Schwarz noise meter]	Better than 44dB (unweighed), self recording Better than 43dB (unweighed), interchanged base [peak-peak composite video to rms noise measured with a Rohde & Schwarz noise meter]	Better than 48dB (unweighed), self recording Better than 47dB (unweighed), interchanged base [peak-peak composite video to rms noise measured with a Rohde & Schwarz noise meter]
Differential gain	Less than 4% (with Sony TBC)	Less than 4% (with Sony TBC)	Less than 4% (with Sony TBC)
Differential phase	Less than 4 degree (with Sony TBC)	Less than 4 degree (with Sony TBC)	Less than 4 degree (with Sony TBC)
Transient response	Less than 1	Less than 1	Less than 1
"K" factor (2T pulse) Tilt (Hor. & Vert.)	Less than 1%	Less than 1%	Less than 1%
Moire	Less than -40 dB (75% Color Bars)	Less than -35 dB (75% Color Bars)	Less than -40 dB (75% Color Bars)
Chrominance/Luminance delay	Less than 20 ns	Less than 25 ns	Less than 20 ns
Low frequency linearity	Less than 2%	Better than 0.98%	Less than 2%
Audio frequency response	CH-1, CH-2 & CH-3 50Hz - 15kHz ± 1 dB 200Hz - 7.5kHz ± 1.0 dB	CH-1, CH-2, CH-3 & CH-4 (option) 50Hz - 15kHz ± 1 dB 200Hz - 7.5kHz ± 1.0 dB	CH-1, CH-2 & CH-3 50Hz - 15kHz ± 1 dB 200Hz - 7.5kHz ± 1.0 dB
S/N ratio	CH-1 & CH-2 Better than 56dB (from 3% distortion level) CH-3 Better than 50dB (from 3% distortion level)	CH-1, CH-2 & CH-4 (option) Better than 56dB (from 3% distortion level) CH-3 Better than 50dB (from 3% distortion level)	CH-1 & CH-2 Better than 56dB (from 3% distortion level) CH-3 Better than 50dB (from 3% distortion level)
Distortion (at 1kHz)	CH-1, CH-2 & CH-3 Less than 1% (at operating level)	CH-1, CH-2, CH-3 & CH-4 (option) Less than 1% (at operating level)	CH-1, CH-2 & CH-3 Less than 1% (at operating level)
Wow & flutter	Less than 0.1% (0.5 - 200Hz NAB unweighed)	Less than 0.1% (CCIR weighed)	Less than 0.1% (0.5 - 200Hz NAB unweighed)
Crosstalk (at 1kHz)	Between any two channels Less than -60 dB	Between any channels Less than -60 dB	Between any two channels Less than -60 dB

1-INCH VIDEO TAPE RECORDERS

OPTIONAL ACCESSORIES FOR BVH-2000/2000PS/2000PM



Control panel Type-I
BKH-2011



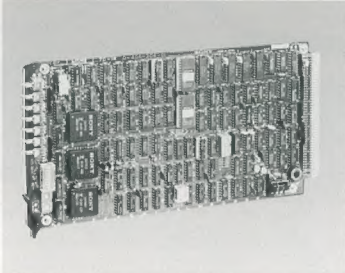
Control panel Type-II
BKH-2012



Control panel Type-III
BKH-2013



Side panel
BKH-2014



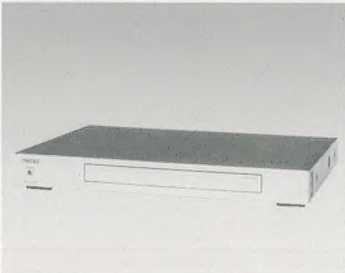
Plug-in time code board
BKH-2015



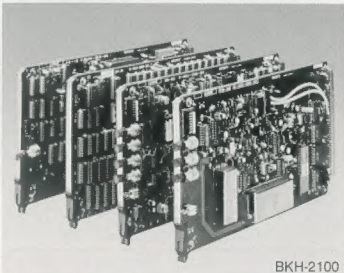
CCJ converter
BKH-2016



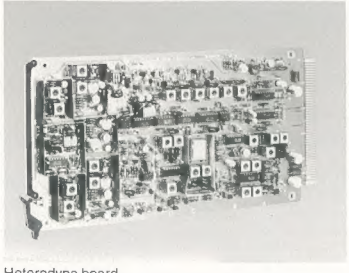
Remote control panel adaptor box
BKH-2017



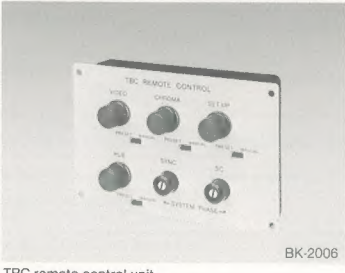
9-pin—CCJ converter
BKH-2018



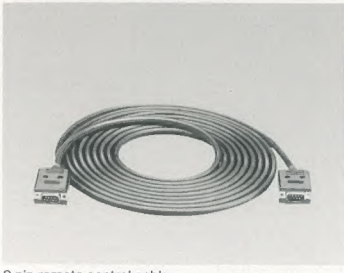
Plug-in TBC
BKH-2100 (NTSC) BKH-2300 (PAL/SECAM)
BKH-2400 (PAL-M)



Heterodyne board
HT-2000 (NTSC)



TBC remote control unit
BK-2006 (NTSC) BK-2007 (PAL)
BK-2008 (PAL-M)



9-pin remote control cable
RCC-5G (5m)/-10G (10m)/-30G (30m)



BVH-500A/500APS/500APM Portable 1-inch VTR
(NTSC) (PAL/SECAM) (PAL-M)



- Compact and lightweight
- Back space assemble edit with ON/OFF switch
- Digital servo system
- Electric tension servo system
- Advanced gyro/rolling characteristics
- New color framing facility
- Warning indicators
- Reel size selector
- 60 minutes recording/playback
- Dust and weather-proof housing
- Low power consumption

Supplied accessories
Empty reel
CCQ-2AR
Operation and maintenance manual

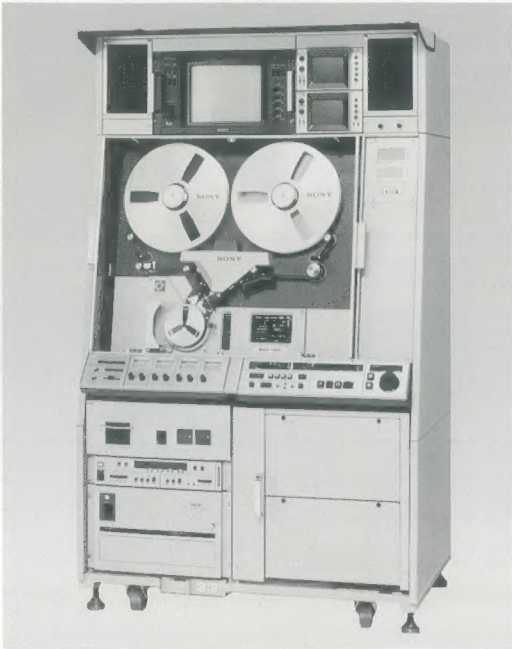
SPECIFICATIONS OF BVH-500 SERIES

	BVH-500A	BVH-500APS	BVH-500APM
General	Power requirements	DC 12V	DC 12V
	Power consumption	60W	60W
	Operating temperature	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)
	Dimensions	380(W) × 178(H) × 420mm(D) (15 × 7 × 16.5")	380(W) × 178(H) × 420mm(D) (15 × 7 × 16.5")
	Weight	Approx. 16 kg (35 lb)	Approx. 16 kg (35 lb)
	Tape speed	24.4cm/sec	23.98cm/sec
	Writing speed (relative speed)	25.59m/sec	21.39m/sec
	Recording/playback time	62 min. (with 9-inch reel)	62 min. (with 9-inch reel)
	REW time	Approx. 5 min. (with 9-inch reel)	Approx. 5 min. (with 9-inch reel)
Video	Lock-up time	Less than 3.5 sec. (standby mode)	Less than 3.5 sec. (standby mode)
	* Bandwidth	4.2MHz ±0.5dB	5.5MHz ±0.5dB, 6MHz -3dB
	* Signal-to-noise ratio	Better than 47dB	Better than 43dB
	* Differential gain	Less than 4%	Less than 4%
	* Differential phase	Less than 4°	Less than 4°
	* Transient response	Less than 1% (2T pulse)	Less than 1% (2T pulse)
Audio	* Moire	Less than -40 dB (75% color bar)	Less than -35dB (75% color bar)
	* Chrominance delay	Less than 25 n. sec.	Less than 25 n. sec.
	* Frequency response	50 to 15,000Hz ±1.5dB (CH-1/2/3)	50 to 15,000Hz ±1.5dB (CH-1/2/3)
	* Signal-to-noise ratio (at 3% distortion level)	Better than 56dB (CH-1/2) Better than 50dB (CH-3)	Better than 56dB (CH-1/2) Better than 50dB (CH-3)
	* Distortion	Less than 1.2% (at operating level)	Less than 1.2% (at operating level)
	Crosstalk	Less than -60dB (at 1kHz)	Less than -60dB (at 1kHz)
	Wow and flutter	Less than 0.12% rms (NAB unweighed)	Less than 0.12% rms

* Playback with BVH-1100/1100A/2000 series

1-INCH VIDEO TAPE RECORDERS

BVH-1180/1180PS 3-hour 1-inch VTR



- Three-hour long playing time
- Audio confidence on audio 1, 2, 3, and 4 (PS only)
- Fast tape transfer
- Reliable tape transport
- DROP FRAME function (Tape timer-1)
- Two accurate hour meters
- Full console configuration (Monitors, Monitor rack, TBC, and Time code generator or reader are optional)

Specifications
Power requirements: AC 100/200V $\pm 10\%$, 50/60Hz
Power consumption: 990W max. (VTR)
2kW max. (including BVT-2000, BVG-1000 and BK-1181/BK-1182 with color monitor/WFM/Vectroscope)
Operating temperature: 5°C to 40°C (41°F to 104°F)
Humidity: 10 to 90% (non-condensing)
Weight: Approx. 240 kg (VTR and console)
Approx. 400 kg (including BVT-2000, BVG-1000, and BK-1181/1182 with color monitor/WFM/Vectroscope)

Optional accessories
BK-1181: Monitor rack for BVH-1180 with audio amplifier
BK-1182: Monitor rack for BVH-1180PS with audio amplifier

DTR-2000 Dynamic Motion Controller



- Five random access cue markers, expandable up to 150 events
- Time code or tape time clock drives with 7 digit display
- Variable preroll, 0 to 9.9 secs or 0 to 99 secs
- RS-422 plug compatibility with BVH-2000series and BVU-820series
- Search to cue number or time code address
- Continuously variable playback speed from $-1/5$ to $+2$ times normal on BVH-1100series and -1 to $+3$ times normal on BVH-2000series and BVU-820series
- Remote operation up to 200m (656 ft) from VTR
- Built-in diagnostic routines
- Multi-standard operation; NTSC, PAL, SECAM, PAL-M

Specifications
Power requirements: AC 100 to 250V $\pm 10\%$ (selectable), 50/60Hz, 40W
Dimensions: 317(W) \times 257(H) \times 454mm(D)
(12.5 \times 10 \times 17.9")
Weight: 11.8 kg (26 lb)
Environmental conditions: 0°C to 40°C (32°F to 104°F)
25 to 90% RH (non-condensing)
Operating standards: 60/525 NTSC, 50/625 PAL, 60/525 PAL-M, 50/625 SECAM

Optional accessories
BKD-2901: CCJ interface remote adaptor for BVH-1100/1100A/1180 series VTRs.
BKD-2902: Cue marker expansion memory, up to 150 events.
BKD-2903: Cue address read/write function at head end of tape.

OPTIONAL ACCESSORIES FOR BVH-500A/500APS/500APM

Function Remote Control BVR-500



Specifications
Dimensions: 199(W) \times 33(H) \times 50mm(D)
(7.83 \times 1.30 \times 1.97")
Weight: 650 g (1 lb 7 oz)
Cable length: 3m (9.8 ft)

Color Playback Adaptor (using with a TBC) CLP-550 (NTSC) / 550PS (PAL/SECAM)



Specifications
Power requirements: AC 100V/120V/240V $\pm 10\%$, 50/60Hz selectable
Power consumption: 40W max.
Dimensions: 424(W) \times 100(H) \times 462mm(D)
(1.67 \times 3.94 \times 18.2")
Weight: 13 kg (28 lb 10 oz)

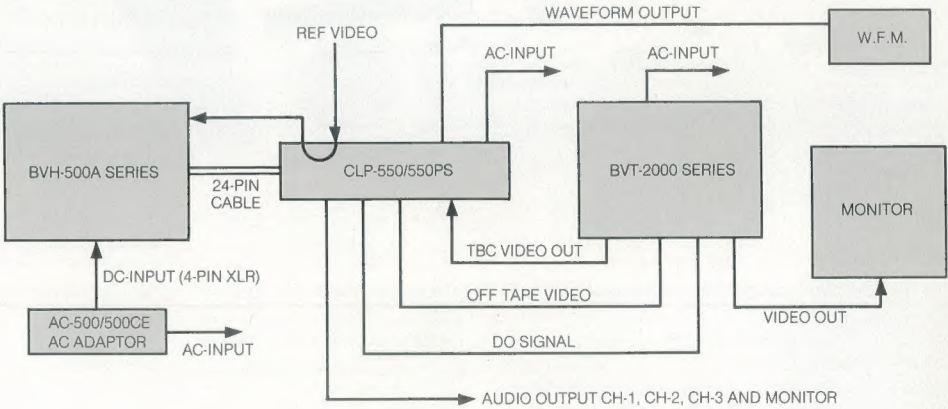
Color Stabilizer HT-500A (NTSC)



Specifications
Power requirement: DC 12V
Power consumption: 2.5W
Dimensions: 333(W) \times 208(H) \times 61mm(D)
(13.1 \times 8.2 \times 2.4")
Weight: 1.65 kg (3 lb 10 oz)

TYPICAL CONNECTIONS

CLP-550/550PS OPERATION WITH BVH-500A SERIES (NTSC or PAL/SECAM)



HT-500A OPERATION WITH BVH-500A (NTSC)



* 12V DC POWER IS SUPPLIED FROM BVH-500A VTR.

U-matic VIDEOCASSETTE RECORDERS

BVU-820/820P/820S/820PM U-matic Videocassette Recorder with Dynamic Tracking



- Dynamic tracking playback, from -1 to +3 times normal speed
- Video confidence, simultaneous playback function
- Front loading cassette
- Bidirex search function from 1/30 to 10 times playback speed
- Fast forward and rewind up to 40 times playback speed
- Full feature jog capability
- Built-in full scale editing function
- Digital time counter
- Fully 19-inch EIA standard rack mountable
- Multi-position, removable control panel
- Time code recording/playback function
- Direct drive system with six DC motors
- Built-in 2-channel audio mixing facility

Supplied accessories
AC power cord
Dubbing cable VDC-5 (5m)
Remote control cable (9-pin—9-pin) RCC-5G
Extension board EX-7
Operation and maintenance manual

BVU-800/800P/800S/800PM U-matic Videocassette Recorder



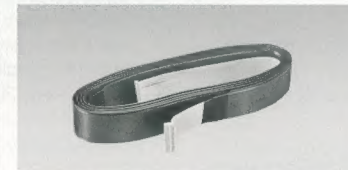
- Front loading cassette
- Bidirex search function from 1/30 to 10 times playback speed
- Fast forward and rewind up to 40 times playback speed
- Full feature jog capability
- Built-in full scale editing function
- Digital time counter
- Fully 19-inch EIA standard rack mountable
- Multi-position, removable control panel
- Time code recording/playback function
- Direct drive system with six DC motors
- Built-in 2 channel audio mixing facility

Supplied accessories
AC power cord
Dubbing cable VDC-5 (5m)
Remote control cable (9-pin—9-pin) RCC-5G
Extension board EX-7
Operation and maintenance manual

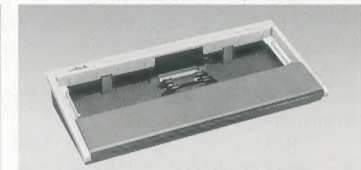
OPTIONAL ACCESSORIES FOR BVU-800/820 SERIES



Control panel (with 40-pin/5m cable)
BK-801



40-pin flat cable
BK-802



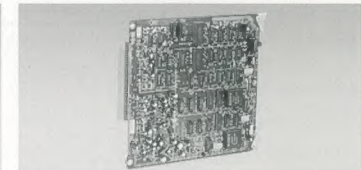
Control panel case
BK-803



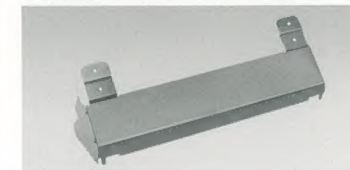
Blank panel
BK-804



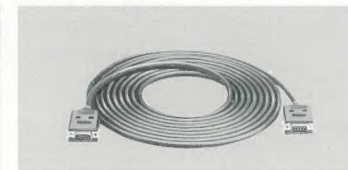
Rack mount kit
BK-805



Time code generator/reader board
BK-806



Function panel rear cover
BK-811

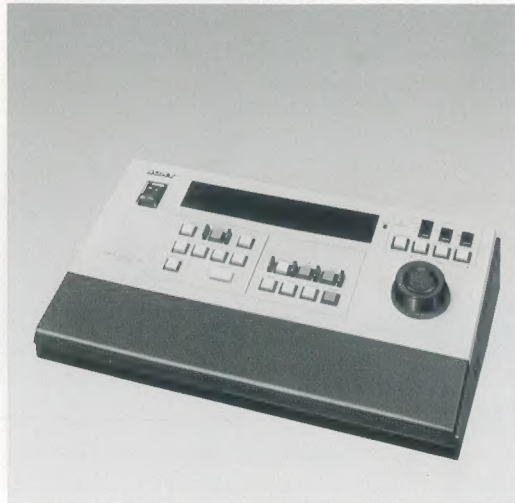


9-pin remote control cable
RCC-5G/10G/30G

U-matic VIDEOCASSETTE RECORDERS

OPTIONAL ACCESSORIES FOR BVU-800/820 SERIES

BVR-820 Remote Control Unit



- Cue-point memory up to 3 points for cue up, preroll, stunt play
- Adjustable preroll time
 - up to 9 sec. 29 frames (NTSC, PAL-M)
 - up to 9 sec. 24 frames (PAL, SECAM)
- Dynamic tracking playback between two cue points for the BVU-820 and BVH-2000.
- Capability of memory expansion up to 256 points
- Fluorescent tube display:
 - CTL/Time code, VTR operation mode
- Up to 500m remote control capability with RS-422 interface
- Various remote control functions:
 - Record, Playback, Fast Forward, Rewind, Stop, Stand-by, Eject, Preroll, Search
- External command input and status output

Supplied accessories
AC power cord x 1
Operation and maintenance manual

Specifications
Preroll time: NTSC or PAL-M: 0 second 00 frame to 9 seconds 29 frames
PAL or SECAM: 0 second 00 frame to 9 second 24 frames
Safety timer: 10 seconds, 1/2/3/4/5/6/7/8/9 minutes
Connector: REMOTE (9P): 9-pin RS422
START SIGNAL IN: BNC
EXTERNAL I/O: 14-pin
Operating temperature: 5°C to 40°C (41°F to 104°F)
Dimensions: 424(W) x 92(H) x 263mm(D) (16.7 x 3.6 x 10.4")
Weight: 4.6 kg (10 lb 2 oz)
Power requirements: AC 100/120/220/240V ±10% (selectable), 50/60Hz ±10%
Power consumption: 21W

BVR-800 Remote Control Unit



- Fluorescent tube display:
 - CTL/Time code, VTR operation mode, Cue points
- Up to 500m remote control capability with RS-422 interface
- Various remote control functions:
 - Record, Playback, Fast Forward, Rewind, Stop, Stand-by, Eject, Preroll, Search
- Adjustable preroll time
 - up to 9 sec. 29 frames (NTSC, PAL-M)
 - up to 9 sec. 24 frames (PAL, SECAM)
- External command input and status output

Supplied accessories
AC power cord x 1
Rack mount kit x 1
Operation and maintenance manual

Specifications
Preroll time: NTSC or PAL-M: 0 second 00 frame to 9 seconds 29 frames
PAL or SECAM: 0 second 00 frame to 9 second 24 frames
Safety timer: 10 seconds, 1/2/3/4/5/6/7/8/9 minutes
Connector: REMOTE (9P): 9-pin RS422
START SIGNAL IN: BNC
EXTERNAL I/O: 14-pin
Operating temperature: 5°C to 40°C (41°F to 104°F)
Dimensions: 424(W) x 92(H) x 177mm(D) (16.7 x 3.6 x 7")
Weight: 3.5 kg (7 lb 4 oz)
Power requirements: AC 100/120/220/240V ±10% (selectable), 50/60Hz ±10%
Power consumption: 17W

SPECIFICATIONS OF BVU-820 SERIES

			BVU-820/820PM	BVU-820P	BVU-820S
General	Dimensions mm (inch)	width height depth	454 (17.8") 283 (11.1") 550 (21.7")	454 (17.8") 283 (11.1") 550 (21.7")	454 (17.8") 283 (11.1") 550 (21.7")
	Weight		38 kg (83 lb 12 oz)	38 kg (83 lb 12 oz)	38 kg (83 lb 12 oz)
	Power requirements		AC 100/120/220/240V ±10% selectable, 48 to 64Hz		
	Power consumption		150W	170W	170W
	Operating temperature		5°C to 40°C (41°F to 104°F)	5°C to 40°C (41°F to 104°F)	5°C to 40°C (41°F to 104°F)
	Storage temperature		-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)
	Fast forward time with KCA-60		Less than 4 min.	Less than 4 min.	Less than 4 min.
	Rewind time with KCA-60		Less than 2.5 min.	Less than 2.5 min.	Less than 2.5 min.
	Search speed		SHUTTLE: DT SELECT switch off—Still, 1/30, 1/10, 1/5, 1/2, 1, 2, 5 and 10 time normal in forward and reverse direction. (Noiseless playback is possible within DT range) DT SELECT switch on—Var: 1 time reverse direction to 3 times in forward direction (Noiseless playback) JOG: Still to 1 in forward and reverse direction (Noiseless playback is possible within DT range)		
	Tape speed		9.53cm/sec (3.5 inch/sec)		
Video	Writing speed		10.26m/sec	8.54m/sec	8.54m/sec
	Wow/flutter		Less than 0.2% rms	±0.25% DIN	±0.25% DIN
	Recording system Luminance Chroma		FM 3.8 - 5.4MHz SC low-frequency conversion	FM 4.8 - 6.4MHz SC low-frequency conversion	FM 4.8 - 6.4MHz SC low-frequency conversion
	Horizontal resolution monochrome mode color mode		340 lines 260 lines	370 lines 270 lines	370 lines 270 lines
Audio	Signal-to-noise ratio B/W mode color mode		49dB 47dB	46dB 46dB	46dB 46dB
	Frequency response		50Hz - 15kHz	50Hz - 15kHz	50Hz - 15kHz
	Signal-to-noise ratio at 3% distortion		48dB	48dB	48dB
	Input (mic) (line)		-60dB 3kΩ +4dB 10kΩ/600Ω	-60dB 3kΩ +4dB 10kΩ/600Ω	-60dB 3kΩ +4dB 10kΩ/600Ω
	Output (line) (headphones) (monitor)		+4dB -46 to -26dB 8Ω +4dB 600Ω	+4dB -46 to -26dB 8Ω +4dB 600Ω	+4dB -46 to -26dB 8Ω +4dB 600Ω

SPECIFICATIONS OF BVU-800 SERIES

			BVU-800/800PM	BVU-800P	BVU-800S
General	Dimensions mm (inch)	width height depth	454 (17.8") 283 (11.1") 550 (21.7")	454 (17.8") 283 (11.1") 550 (21.7")	454 (17.8") 283 (11.1") 550 (21.7")
	Weight		37 kg (81 lb 9 oz)	37 kg (81 lb 9 oz)	37 kg (81 lb 9 oz)
	Power requirements		AC 100/120/220/240V ±10% (selectable), 48 to 64Hz		
	Power consumption		150W	170W	170W
	Operating temperature		5°C to 40°C (41°F to 104°F)	5°C to 40°C (41°F to 104°F)	5°C to 40°C (41°F to 104°F)
	Storage temperature		-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)
	Fast forward time with KCA-60		Less than 4 min.	Less than 4 min.	Less than 4 min.
	Rewind time with KCA-60		Less than 2.5 min.	Less than 2.5 min.	Less than 2.5 min.
	Search speed		SHUTTLE: Still, 1/30, 1/10, 1/5, 1/2, 1, 2, 5 and 10 time normal in forward and reverse direction JOG: Still to 1 in forward and reverse direction		
	Tape speed		9.53cm/sec (3.5 inch/sec)		
Video	Writing speed		10.26m/sec	8.54m/sec	8.54m/sec
	Wow/flutter		Less than 0.2% rms	±0.25% DIN	±0.25% DIN
	Recording system Luminance Chroma		FM 3.8 - 5.4MHz SC low-frequency conversion	FM 4.8 - 6.4MHz SC low-frequency conversion	FM 4.8 - 6.4MHz SC low-frequency conversion
	Horizontal resolution monochrome mode color mode		340 lines 260 lines	370 lines 260 lines	370 lines 260 lines
Audio	Signal-to-noise ratio B/W mode color mode		49dB 47dB	46dB 46dB	46dB 46dB
	Frequency response		50Hz - 15kHz	50Hz - 15kHz	50Hz - 15kHz
	Signal-to-noise ratio at 3% distortion		48dB	48dB	48dB
	Input (mic) (line)		-60dB 3kΩ +4dB 10kΩ/600Ω	-60dB 3kΩ +4dB 10kΩ/600Ω	-60dB 3kΩ +4dB 10kΩ/600Ω
	Output (line) (headphones) (monitor)		+4dB -46 to -26dB 8Ω +4dB 600Ω	+4dB -46 to -26dB 8Ω +4dB 600Ω	+4dB -46 to -26dB 8Ω +4dB 600Ω

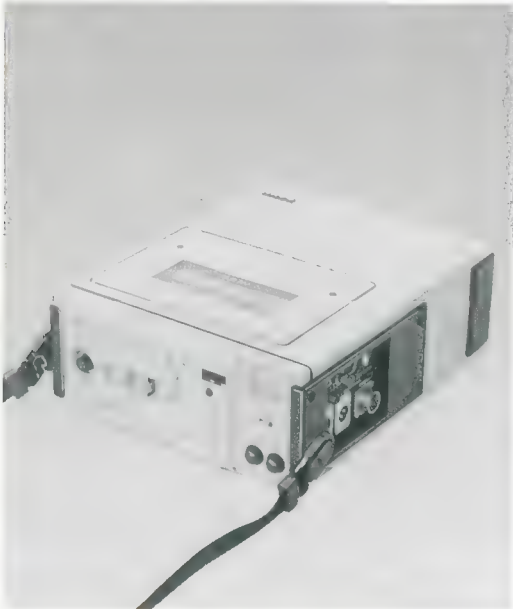
U-matic VIDEOCASSETTE RECORDERS

BVU-110/110P/110S/110PM
 U-matic Portable Videocassette Recorder
 (NTSC) (PAL) (SECAM) (PAL-M)



- Lightweight and rugged construction
 - Low power consumption (13W)
 - Back-space editing
 - Recording/playback of SMPTE/EBU time code
 - Real time counter
 - Picture search function
 - Warning indicators
 - Built-in color replay
 - AGC or manual audio recording
 - Framing servo
 - TBC connection facility
- Supplied accessories*
 Carrying case
 Shoulder strap
 Carrying strap
 Camera cable CCJQ (10-pin—14-pin) 0.5m
 Operation and maintenance manual
- Optional accessory*
BK-112 plug-in time code generator
 Dimensions: 123(W) × 23(H) × 93mm(D)
 (4.8 × 0.9 × 3.7")
 Weight: 250 g (8.8 oz)
 Power requirement: DC 5V (Power is supplied from BVU-110 series)

BVU-50/50P/50S
 U-matic Portable Videocassette Recorder
 (NTSC) (PAL) (SECAM)



- Compact and lightweight: 5.7 kg (12 lb 9 oz) without battery and tape
 - Back-space editing
 - Long battery operation
 - Gyroscopic error suppression
 - Framing servo
 - RF confidence head
 - Real time tape counter display
 - Time code address track
 - Warning indicators
 - Audio level control
 - Switchable audio input
 - Low power consumption
- Supplied accessories*
 Carrying case
 Shoulder strap
 Carrying strap
 Time code generator case
 Time code generator attachment
- Optional accessory*
 S-76 memory battery



SPECIFICATIONS OF BVU-110 SERIES

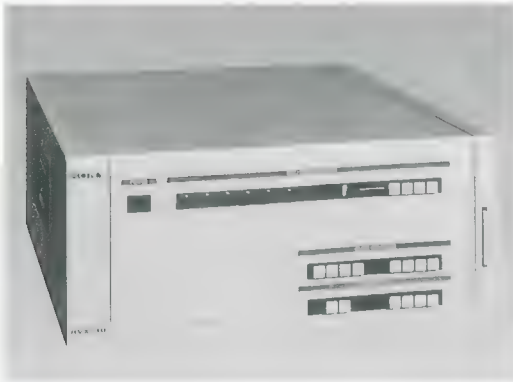
		BVU-110	BVU-110P	BVU-110S	BVU-110PM
General	Dimensions	width 336 (13.2") height 135 (5.3") depth 393 (15.5")	width 336 (13.2") height 135 (5.3") depth 393 (15.5")	width 336 (13.2") height 135 (5.3") depth 393 (15.5")	width 336 (13.2") height 135 (5.3") depth 393 (15.5")
	Weight (w/battery, cassette)	9.1 kg (20 lb 1 oz) 11.3 kg (24 lb 15 oz)	9.1 kg (20 lb 1 oz) 11.3 kg (24 lb 15 oz)	9.1 kg (20 lb 1 oz) 11.3 kg (24 lb 15 oz)	9.1 kg (20 lb 1 oz) 11.3 kg (24 lb 15 oz)
	Power requirements	DC 12V	DC 12V	DC 12V	DC 12V
	Power consumption	13W (12V, 1.08A)	13W (12V, 1.08A)	13W (12V, 1.08A)	13W (12V, 1.08A)
	Operating temperature	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
	Storage temperature	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)
	F. FWD, REW TIME	Less than 3 min.	Less than 3 min.	Less than 3 min.	Less than 3 min.
	Tape speed	9.53cm/sec.	9.53cm/sec.	9.53cm/sec.	9.53cm/sec.
	Wow/flutter	0.2% rms	±0.25% DIN	±0.25% DIN	0.2% rms
	Recording system	Luminance Chroma SC low-frequency conversion	Luminance Chroma SC low-frequency conversion	Luminance Chroma SC low-frequency conversion	Luminance Chroma SC low-frequency conversion
Video	Horizontal resolution (color mode)	260 lines	260 lines	260 lines	260 lines
	Signal-to-noise ratio	Better than 45dB in color	Better than 45dB in color	Better than 45dB in color	Better than 45dB in color
	Frequency response	50Hz - 15kHz	50Hz - 15kHz	50Hz - 15kHz	50Hz - 15kHz
Audio	Signal-to-noise ratio at 3% distortion	Better than 48dB	Better than 48dB	Better than 48dB	Better than 48dB
	Input (mic) (line)	-60dB 3kΩ +4dB 10kΩ	-60dB 3kΩ +4dB 10kΩ	-60dB 3kΩ +4dB 10kΩ	-60dB 3kΩ +4dB 10kΩ
	Output (line) (earphone)	Low impedance, +4dB, balanced 600Ω -32 to -20dB variable	Low impedance +4dB, balanced 600Ω -28 to -16dB variable	Low impedance +4dB, balanced 600Ω -28 to -16dB variable	Low impedance +4dB, balanced 600Ω -32 to -20dB variable

SPECIFICATIONS OF BVU-50 SERIES

		BVU-50	BVU-50P	BVU-50S
General	Dimensions	width 270 (10.6") height 125 (4.9") depth 335 (13.2")	width 270 (10.6") height 125 (4.9") depth 335 (13.2")	width 270 (10.6") height 125 (4.9") depth 335 (13.2")
	Weight (Main unit) (w/battery, cassette)	5.7 kg (12 lb 9 oz) 7.9 kg (17 lb 7 oz)	5.7 kg (12 lb 9 oz) 7.9 kg (17 lb 7 oz)	5.7 kg (12 lb 9 oz) 7.9 kg (17 lb 7 oz)
	Power requirements	DC 12V	DC 12V	DC 12V
	Power consumption	11W (12V, 900mA)	12W (12V, 1A)	12W (12V, 1A)
	Operating temperature	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
	Storage temperature	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)
	Tape speed	9.53cm/sec.	9.53cm/sec.	9.53cm/sec.
	Wow/flutter	Less than 0.2% rms	±2.5% DIN	±2.5% DIN
	Recording system	Luminance Chroma FM 3.8 - 5.4MHz SC low-frequency conversion	Luminance Chroma FM 4.8 - 6.4MHz SC low-frequency conversion	Luminance Chroma FM 4.8 - 6.4MHz SC low-frequency conversion
	Horizontal resolution (color mode)	260 lines	260 lines	260 lines
Video	Signal-to-noise ratio	Better than 46dB in color	Better than 46dB in color	Better than 46dB in color
	Frequency response	50Hz - 15kHz	50Hz - 15kHz	50Hz - 15kHz
	Signal to noise ratio at 3% distortion	Better than 48dB	Better than 48dB	Better than 48dB
	Input (mic) (earphone)	-60dB 3kΩ 600Ω (microphone) -32 to -20dB variable	-60dB 3kΩ 600Ω (microphone) -32 to -20dB variable	-60dB 3kΩ 600Ω (microphone) -32 to -20dB variable

DIGITAL VIDEO MULTI-PROCESSOR

BVX-30/30PM Digital Video Multi-Processor

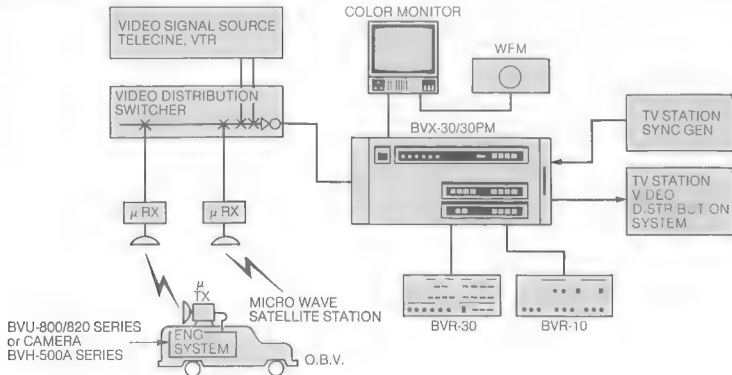


- Synchronizes output to external reference signal
- Newly developed high-efficiency noise extraction circuit, reduces noise up to 15dB
- Image enhancer, independent 4 position H/V detail controls
- Three-mode time base error correction U-matic heterodyne, U-matic direct, direct color*1
- Freeze field, freeze frame picture
- Optional color correction
- Full remote control including optional color correction
- Requires only 4 EIA units of EIA rack space

Supplied accessories
Extension board (1 set)
Rack mounting bracket (1 set)

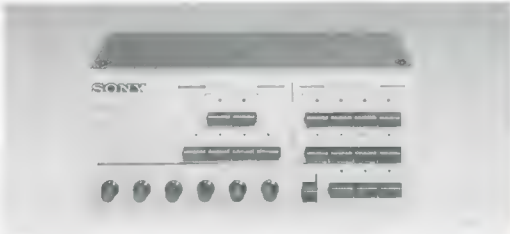
Specifications
Power requirements: AC 90 to 132V, 50 to 60Hz
Power consumption: 400W (with BK-31 and BVR-30)
Operating temperature and humidity: 10°C to 40°C (50°F to 104°F), 10 to 80 %
Dimensions: Approx. 424(W) x 177(H) x 580mm(D) (16.7 x 7 x 22.8")
Weight: Approx. 25 kg (55 lb 2 oz)

SYSTEM APPLICATION



OPTIONAL ACCESSORIES FOR BVX-30

Remote Control Unit
BVR-30
Controls all functions of the BVX-30 Digital Video Multi-Processor except optional BK-31 color corrector.



Specifications
Dimensions: 212(W) x 88(H) x 110mm(D) (8.4 x 3.5 x 4.3")
Weight: 1.3 kg (2 lb 14 oz)
Supplied accessories: Remote control cable
Rack angle
Operation and maintenance manual

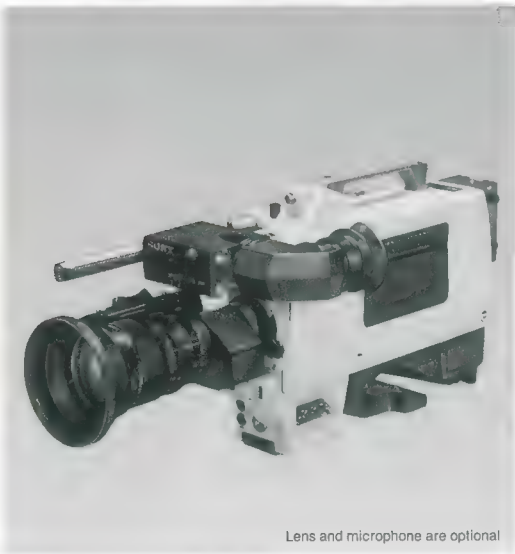
Color correction/Remote control unit
BK-31/BVR-10



Specifications
Dimensions: 212(W) x 88(H) x 110mm(D) (8.4 x 3.5 x 4.3")
Weight: 1.2 kg (2 lb 10 oz)
Color correction range: Gain (R.G.B) ±30%, Pedestal (R.G.B) ±15%
Gamma (R.G.B) ±10%, Flare (R.G.B) 20%
Supplied accessories: Remote control cable
Rack angle
Operation and maintenance manual

COLOR CAMERAS

BVP-330A/330AP/330AS/330APM Portable Color Camera, 3-tube



- Three 2/3-inch Diode Gun Plumbicon™
- Dynamic focus—improved corner resolution
- Improved white shading correction
- Auto centering (digital memory)
- High resolution
- Compact and lightweight (4.7 kg, 10 lb 6 oz)
- High sensitivity and low noise performance
- Color framing output
- Low power consumption (24W)
- Two line image enhancer
- Automatic beam optimizer
- Automatic iris close
- Automatic white/black balance
- Preset color balance

Supplied accessories
Carrying case
Tripod attachment
Camera cable (CCQ-2AR)
Battery case
Circuit board extender
Viewfinder
Eye caps
PCB extraction tool
14-pin connector
6-pin connector
Bias light lamp
Fuse
Dust cover
Rain proof cover
Shoulder strap

SPECIFICATIONS OF BVP-330A SERIES

	BVP-330A	BVP-330AP	BVP-330AS	BVP-330APM
Pickup tube		2/3-inch Diode Gun Plumbicon		
Optical system		F1.4 High index prism		
Lens mount		Special bayonet mount		
Filter wheels		0: cap. 1: 3200°K, 2: 5600°K + 1/4ND, 3: 5600°K		
Viewfinder		1.5-inch with PEAKING ON/OFF switch		
Sensitivity		2000 lux with F4.5 (typical) 90% reflectance		
Minimum subject illumination		Approx. 25 lux (F1.4 lens, +18dB)		
Signal-to-noise ratio	58dB (Typical)	56dB (Typical)	56dB (Typical)	58dB (Typical)
* Horizontal resolution	600 TV lines	600 TV lines	600 TV lines	600 TV lines
Registration zone 1 zone 2 zone 3	0.1% 0.2% 0.4%	0.1% 0.2% 0.4%	0.1% 0.2% 0.4%	0.1% 0.2% 0.4%
Geometric distortion zone 1 zone 2 zone 3	1% 1.5% 1.5%	1% 1.5% 1.5%	1% 1.5% 1.5%	1% 1.5% 1.5%
Power requirements	DC 12V	DC 12V	DC 12V	DC 12V
Power consumption	24W	24W	24W	24W
Continuous recording time		Approx. 2 hours with BP-90		
Warm-up time		Approx. 3.5 seconds (from preheat condition)		
Operating temperature	-20°C to 50°C (-4°F to 122°F)	-20°C to 50°C (-4°F to 122°F)	-20°C to 50°C (-4°F to 122°F)	-20°C to 50°C (-4°F to 122°F)
Storage temperature	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)
Weight		Approx. 4.8 kg (10 lb 9 oz) for camera Approx. 0.6 kg (1 lb 2 oz) for viewfinder		
Auto centering	O	O	O	O
Auto W/B balance	O	O	O	O
2 line image enhancement	O	O	O	O
Color framing out from VTR connection	O	O	O	O
Video level indicator	O	O	O	O

* Horizontal resolution: center area.

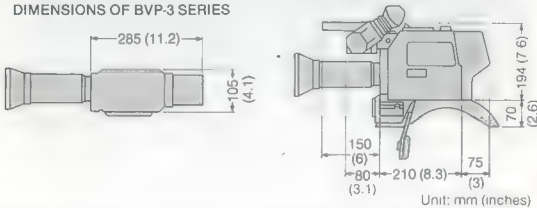
COLOR CAMERAS

BVP-3/3P/3S/3PM Portable Color Camera, 3-tube
(NTSC) (PAL) (SECAM) (PAL-M)



- Newly developed electrostatic deflection tube (three 2/3-inch MF "SATICON" tube system)
- High resolution of 650 TV lines at center
- Improved corner resolution
- Superior S/N ratio of 58dB (NTSC, PAL-M), 56dB (PAL, SECAM)
- Auto centering function
- Auto white balance with 3-position digital memory
- Automatic beam optimizer
- Wide dynamic range to accept excessive light
- Two line image enhancer
- Shading compensation with lens extender
- Genlock facility with CA-3, camera adaptor
- Low power consumption, 21W with CA-3 camera adaptor
- Lightweight (4.9 kg with VF and CA-3)

DIMENSIONS OF BVP-3 SERIES



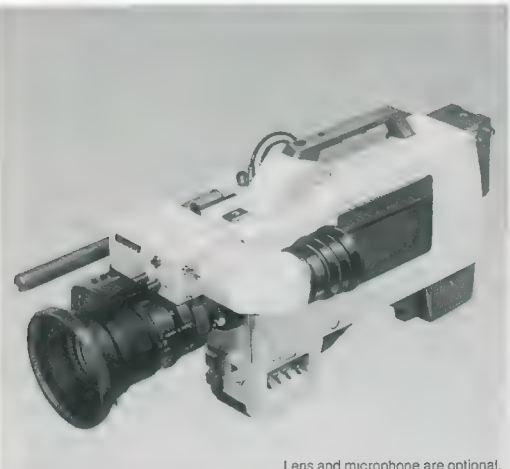
- Supplied accessories
- | | |
|-----------------|--|
| Tripod adaptor | Extractor |
| Tripod bracket | Chart for automatic centering adjustment |
| Extension board | |

SPECIFICATIONS OF BVP-3 SERIES

	BVP-3	BVP-3P	BVP-3S	BVP-3PM
Pickup tube		2/3-inch MF "SATICON"		
Optical system		F1.4 prism system		
Lens mount		Special bayonet mount		
Filter wheels		1: 3200°K, 2: 5600°K + 1/4ND, 3: 5600°K, 4: 5600°K + 1/16ND		
Viewfinder		1.5-inch with TALLY ON/OFF switch		
Sensitivity		2000 lux with F4 (typical) 90% reflectance		
Minimum subject illumination		Approx. 30 lux (F1.4 lens, +18dB)		
Signal-to-noise ratio	58dB (Typical)	56dB (Typical)	56dB (Typical)	58dB (Typical)
* Horizontal resolution	650 TV lines	650 TV lines	650 TV lines	650 TV lines
Registration zone 1	0.1%	0.1%	0.1%	0.1%
zone 2	0.15%	0.15%	0.15%	0.15%
zone 3	0.3%	0.3%	0.3%	0.3%
Geometric distortion zone 1	1%	1%	1%	1%
zone 2	1%	1%	1%	1%
zone 3	1%	1%	1%	1%
Power requirements	DC 12V	DC 12V	DC 12V	DC 12V
Power consumption	20W	20W	22W	20W
Continuous recording time		Approx. 2 hours with BP-90		
Warm-up time		Approx. 3.5 seconds (from preheat condition)		
Operating temperature	-20°C to 40°C (-4°F to 104°F)	-20°C to 40°C (-4°F to 104°F)	-20°C to 40°C (-4°F to 104°F)	-20°C to 40°C (-4°F to 104°F)
Storage temperature	-20°C to 50°C (-4°F to 122°F)	-20°C to 50°C (-4°F to 122°F)	-20°C to 50°C (-4°F to 122°F)	-20°C to 50°C (-4°F to 122°F)
Weight		4.3 kg (9 lb 7 oz) with viewfinder 0.6 kg for CA-3		
Auto centering	○	○	○	○
Auto W/B balance	○	○	○	○
2-line image enhancement	○	○	○	○
Color framing out from multi connector	○	○	○	○
Video level Indicator	○	○	○	○

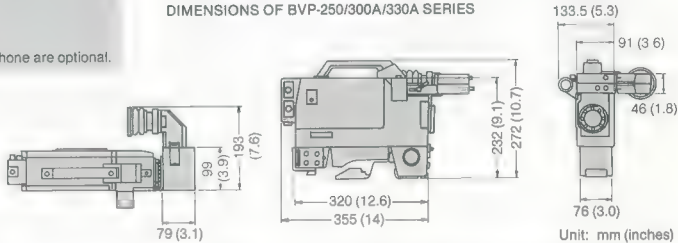
* Horizontal resolution: center area.

BVP-250/250P Portable Color Camera, 3-tube
(NTSC) (PAL)



- F1.4 high index prism system
- Three 2/3-inch Saticon™
- Compact and lightweight
- Low power consumption
- High signal-to-noise ratio
- Superior sensitivity
- Automatic white/black balance with digital memory
- 2 line image enhancer
- Automatic beam adjustment
- Level indicator in viewfinder
- VBS genlock
- Color framing output
- Plug compatible with a wide range of Sony broadcast products

DIMENSIONS OF BVP-250/300A/330A SERIES



- Supplied accessories
- | | |
|-------------------------|------------------|
| Carrying case | 14-pin connector |
| Tripod attachment | 6-pin connector |
| Camera cable (CCQ-2AR) | Bias light lamp |
| Battery case | Fuse |
| Circuit board extenders | Dust cover |
| Viewfinder | Rain-proof cover |
| Eye caps | |
| PCB extraction tool | |

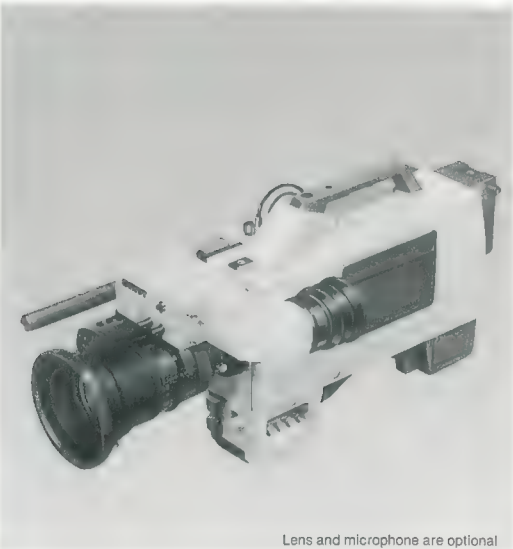
SPECIFICATIONS OF BVP-250 SERIES

	BVP-250	BVP-250P
Pickup tube		2/3-inch Saticon
Optical system		F1.4 High index prism
Lens mount		Special bayonet mount
Filter wheels		0: cap. 1: 3200°K, 2: 5600°K + 1/4ND, 3: 5600°K
Viewfinder		1.5-inch with PEAKING ON/OFF switch
Sensitivity		2000 lux with F4, 90% reflectance
Minimum subject illumination		Approx. 30 lux (F1.4 lens, +18dB)
Signal-to-noise ratio	55dB	53dB
* Horizontal resolution	580 TV lines	580 TV lines
Registration zone 1	0.1%	0.1%
zone 2	0.4%	0.4%
zone 3	0.8%	0.8%
Geometric distortion	2.0% max.	2.0% max.
Power requirements	DC 12V	DC 12V
Power consumption	21W	21W
Continuous recording time		Approx. 2 hours with BP-90.
Warm-up time		Approx. 3.5 seconds (from preheat condition)
Operating temperature	-10°C to 40°C (14°F to 104°F)	-10°C to 40°C (14°F to 104°F)
Storage temperature	-20°C to 50°C (-4°F to 122°F)	-20°C to 50°C (-4°F to 122°F)
Weight		4.95 kg (10 lb 15 oz) for camera 0.67 kg (1 lb 8 oz) for viewfinder
Auto centering	—	—
Auto W/B balance	○	○
2 line image enhancement	○	○
Color framing out from VTR connection	○	○
Video level Indicator	○	○

* Horizontal resolution: center area.

COLOR CAMERAS

BVP-300A/300AP/300AS/300APM Portable Color Camera, 3-tube



- F1.4 high index prism system
- Compact and lightweight
- Low power consumption (21W at DC 12V)
- High signal-to-noise ratio
- Superior sensitivity
- Automatic white/black balance with digital memory
- 2 line image enhancer
- Automatic beam adjustment
- Level indicator in viewfinder
- VBS genlock
- Color framing pulse output
- Plug compatible with a wide range of Sony broadcast products

Supplied accessories
Carrying case
Tripod attachment
Camera cable (CCQ-2AR)
Battery case
Circuit board extenders
Viewfinder
Eye caps
PCB extraction tool

14-pin connector
6-pin connector
Bias light lamp
Fuse
Dust cover
Rain-proof cover

Lens and microphone are optional

SPECIFICATIONS OF BVP-300A SERIES

	BVP-300A	BVP-300AP	BVP-300AS	BVP-300APM
Pickup tube	2/3-inch Plumbicon™			
Optical system	F1.4 High index prism			
Lens mount	Special bayonet mount			
Filter wheels	0: cap. 1: 3200°K, 2: 5600°K + 1/4ND, 3: 5600°K			
Viewfinder	1.5-inch with PEAKING ON/OFF switch			
Sensitivity	2000 lux with F4.5 (typical) 90% reflectance			
Minimum subject illumination	Approx. 20 lux (F1.4 lens, +18dB)			
Signal-to-noise ratio	56dB	54dB	54dB	56dB
* Horizontal resolution	600 TV lines	600 TV lines	600 TV lines	600 TV lines
Registration zone 1	0.1%	0.1%	0.1%	0.1%
zone 2	0.2%	0.2%	0.2%	0.2%
zone 3	0.5%	0.5%	0.5%	0.5%
Geometric distortion zone 1	1.5%	1.5%	1.5%	1.5%
zone 2	1.5%	1.5%	1.5%	1.5%
zone 3	1.5%	1.5%	1.5%	1.5%
Power requirements	DC 12V	DC 12V	DC 12V	DC 12V
Power consumption	21W	21W	21W	21W
Continuous recording time	Approx. 2 hours with BP-90			
Warm-up time	Approx. 3.5 seconds (from preheat condition)			
Operating temperature	-20°C to 50°C (-4°F to 122°F)	-20°C to 50°C (-4°F to 122°F)	-20°C to 50°C (-4°F to 122°F)	-20°C to 50°C (-4°F to 122°F)
Storage temperature	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)
Weight	4.8 kg (10 lb 9 oz) for camera 0.67 kg (1 lb 8 oz) for viewfinder			
Auto centering	—	—	—	—
Auto W/B balance	○	○	○	○
2 line image enhancement	○	○	○	○
Color framing out from VTR connection	○	○	○	○
Video level indicator	○	○	○	○

* Horizontal resolution: center area.

BVP-110/110P/110S/110PM Portable Color Camera, Single-tube



- New technology HBST single pickup tube
- Refined electronic indexing system
- Compact and lightweight (2.95 kg, 6 lb 8 oz)
- Low power consumption (11W at DC 12V)
- Automatic white balance with 3 independent digital memories
- Registration free
- Built-in genlock sync generator
- Cable-less package
- Two line image enhancer
- 4-position filter wheel
- Ready for use in 4 seconds from power on
- Plug compatible with a wide range of Sony broadcast video products

Supplied accessories
Sharp-directional microphone
Viewfinder
Camera cable CCQ-2AR (2 meter, 6.4 feet)
Lens cap
Lens mount cap
Wind screen
Shoulder strap

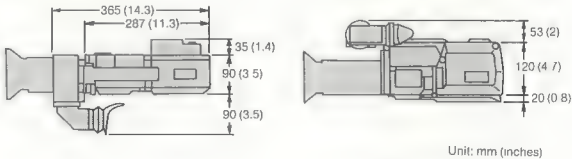
Shoulder pad
Brace
Extension board
Extractor
Carrying case
Shoulder strap for carrying case
Operation and maintenance manual

Lens is optional

SPECIFICATIONS OF BVP-110 SERIES

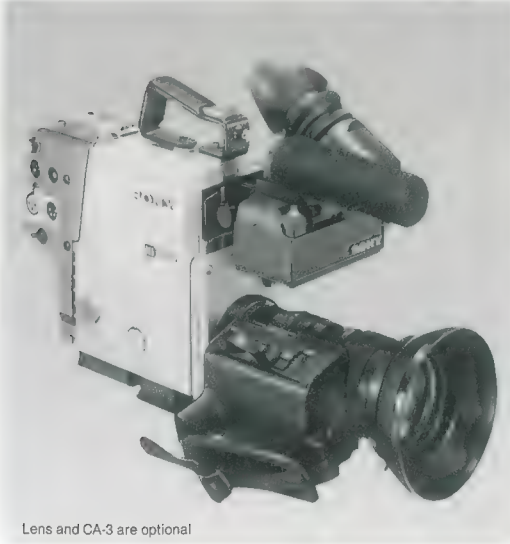
	BVP-110/110PM	BVP-110P/110S
Pickup tube	2/3-inch HBST tube	2/3-inch HBST tube
Signal system	EIA standards, NTSC (110), PAL-M (110PM) color	CCIR standards, PAL (110P), SECAM (110S)
Filter wheels	1: 3200°K 2: 5200°K 3: 5200°K + 1/4ND 4: 6800°K	1: 3200°K 2: 5200°K 3: 5200°K + 1/4ND 4: 6800°K
Sync system	Internal External with a VBS or BS signal supplied to the GENLOCK connector	Internal External with a VBS or BS signal supplied to the GENLOCK connector
Horizontal resolution	400 TV lines	400 TV lines
Sensitivity	2000 lux with F4. 90% reflectance	2000 lux with F4. 90% reflectance
Gain select	0dB, +6dB or +12dB (selectable)	0dB, +6dB or +12dB (selectable)
Minimum illumination	Approx. 80 lux (F1.6 lens, +12dB)	Approx. 80 lux (F1.6 lens, +12dB)
Video output	1.0Vp-p, sync negative, 75 ohms, unbalanced	1.0Vp-p, sync negative, 75 ohms, unbalanced
Signal-to-noise ratio	54dB (Typical)	53dB (Typical)
Power requirements	DC 10.3V - 17V	DC 10.3V - 17V
Power consumption	11W	11W
Warm-up time	4 seconds from preheat mode	4 seconds from preheat mode
Operating temperature	-20°C to +45°C (-4°F to 113°F)	-20°C to +45°C (-4°F to 113°F)
Storage temperature	-20°C to +50°C (-4°F to 122°F)	-20°C to +50°C (-4°F to 122°F)
Weight	2.95 kg without lens (6 lb 8 oz)	2.95 kg without lens (6 lb 8 oz)

Dimensions:



COLOR CAMERAS

BVP-1/1P/1S Portable Color Camera, Single tube



- Compact and lightweight; super maneuverability (only 3.4 kg with VF and CA-3)
- Single tube configuration HBST (High Band SMF Trinicon) provides 400 TV lines
- Low power consumption, 12W with CA-3 camera adaptor
- Registration free
- Auto white balance with 3-position digital memory
- Cableless package
- Built-in unidirectional high sensitivity microphone
- Excellent S/N ratio of 54dB
- Automatic Beam Optimizer
- Two line image enhancer
- Automatic pickup tube protection shutter

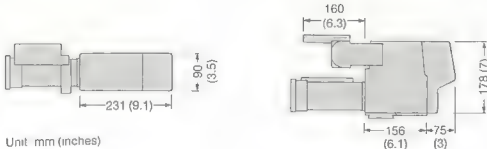
Supplied accessories
Extension board
Tripod adaptor plate
Extractor
Wind screen
50-pin cap
Mount cap

Lens and CA-3 are optional

SPECIFICATIONS OF BVP-1 SERIES

	BVP-1	BVP-1P/1S
Pickup tube	1/2-inch HBST tube	1/2-inch HBST tube
Signal system	EIA standards, NTSC (110), PAL-M (110PM) color	CCIR standards, PAL (110P), SECAM (110S)
Built-in filters	1: 3200°K 2: 5200°K + 1/4ND 3: 5200°K 4: 6800°K	1: 3200°K 2: 5200°K + 1/4ND 3: 5200°K 4: 6800°K
Sync system	Internal	Internal
Horizontal resolution	400 TV lines	400 TV lines
Sensitivity	2000 lux with F4, 90% reflectance	2000 lux with F4, 90% reflectance
Gain select	0dB, +6dB or +12dB (selectable)	0dB, +6dB or +12dB (selectable)
Minimum illumination	Approx. 80 lux (F1.6 lens, +12dB)	Approx. 80 lux (F1.6 lens, +12dB)
Video output	1.0Vp-p, sync negative, 75 ohms, unbalanced	1.0Vp-p, sync negative, 75 ohms, unbalanced
Signal-to-noise ratio	54dB (Typical)	53dB (Typical)
Power requirements	DC 10.3V - 17V	DC 10.3V - 17V
Power consumption	11W	11W
Warm-up time	4 seconds from preheat mode	4 seconds from preheat mode
Operating temperature	-20°C to +45°C (-4°F to 113°F)	-20°C to +45°C (-4°F to 113°F)
Storage temperature	-20°C to +50°C (-4°F to 122°F)	-20°C to +50°C (-4°F to 122°F)
Weight	2.75 kg without lens (6 lb 1 oz)	2.75 kg without lens (6 lb 1 oz)

Dimensions.



CAMERA ACCESSORIES

CCU-300/300P/300PM Camera Control Unit



- AD/DC 2-way power operation
- 600m max. power operation
Max. 600m: 1.5 inch VF in camera
CCU-300 with AC operation
Max. 300m: 5 inch VF in camera
CCU-300 with AC operation
- Genlock function
- Multi monitor
- Mixing monitor
- Double jacks for headset
- Easy maintenance and inspection
- Compact and lightweight

Supplied accessories
CCU adaptor for BVP-250/300/330 series camera
Power cable
Knobs for centering control
Spare fuses
PCB extender board
Spare connectors: 16P, 24P, XLR-7P
Mounting brackets for CCU adaptor
Operation and maintenance manual

Specifications
Power requirements: AC 100/120/220/240V ±10%, 50/60Hz
DC 10.5 - 17V
AC 85W, DC 49W
Power consumption: -10°C to +45°C (14°F to 113°F)
Ambient operating temperature: (CCU and CCU adaptor)
Dimensions: CCU: 218(W) × 128(H) 382mm(D)
(8.6 × 5 × 15")
CCU adaptor: 77(W) × 146.5(H) × 104mm(D)
(3 × 5.8 × 4.1")
Weight: CCU: 6.5 kg (14 lb 2 oz)
CCU adaptor: 0.7 kg (1 lb 3 oz)

DCU-300/300P/300PM Digital Command Unit



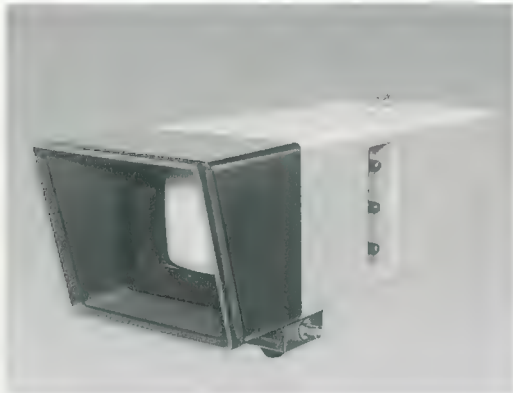
- Long transmission distance
14.5mm Triaxial cable—up to 2500m (8202 ft)
8.5mm Triaxial cable—up to 1200m (3937 ft)
5C-2V coaxial cable—up to 1200m (3937 ft)
3C-2V coaxial cable—up to 700m (2297 ft)
- Radio/telephone links
- Secure data coding
- Compact size
- Optional optical fiber links

Supplied accessories
Junction box
Belt
CCW-2 cable (2m)
Extension board A, B
Fuses
Power supply cord
Connector XLR-7P (M, F)
36-pin multi-connector
Cramper bracket

Specifications
Power requirements: AC 100/120/220/240V ±10%
DC 11.5 to 17V (14 - 17V when the CCW-26 is used)
AC 100W, DC 50W
Dimensions: Camera adaptor: 260(W) × 235(H) × 110mm(D)
(10.2 × 9.3 × 4.3")
CCU adaptor: 218(W) × 128(H) × 379mm(D)
(8.6 × 5 × 15")
Weight: Camera adaptor: 3.3 kg (7 lb 4 oz)
CCU adaptor: 6.1 kg (13 lb 7 oz)

CAMERA ACCESSORIES

BVF-5 5-inch B/W Viewfinder



- Energy saving design—9.5W
- Compatible with all systems (NTSC, PAL, SECAM, PAL-M)
- Usable as a line monitor
- Continuously variable peaking compensation
- Stable picture
- Easy to handle
- For BVP-250/300A/330A cameras

Supplied accessories
VF mounting adaptor
Hood
4-pin connecting cable (4-pin—4-pin for power supply)
6-pin connecting cable A (6-pin—6-pin for BVP-300 series, about 38cm long)
6-pin connecting cable B (6-pin—6-pin for BVP-200 series, about 50cm long)
4-pin connector (for power supply)
Tally lamp
Fuse

Specifications
Dimensions: 140(W) × 120(H) × 270mm(D)
(5.5 × 4.7 × 10.6")
370mm (14.6") deep with hood
Weight: 3.5 kg (7 lb 11 oz)
Power requirements: DC 10.5V - 17V
Power consumption: 9.5W
Picture frame: 72(H) × 96mm(W) underscan
(2.8 × 3.8")
Resolution: More than 500 lines at center
More than 450 lines at edges
Picture distortion: Less than 2%
Operating temperature: -10°C to 45°C (14°F to 113°F)

SECAM CONVERSION KIT

- BK-302 (SECAM Board Kit)**
PAL to SECAM conversion kit for:
BVP-250P, 300P, 300AP, 330P series PAL camera.
- BK-303 (SECAM Board Kit)**
PAL to SECAM conversion kit for:
CCU-300P PAL camera control unit.
- BK-305 (SECAM Board Kit)**
PAL to SECAM conversion kit for:
DCU-300 PAL digital command unit.

BVF-50/50CE 5-inch B/W Viewfinder
(EIA) (CCIR)



- 600 lines of resolution at center
- Adjustable center position marker with ON/OFF switch
- Facility of panning and tilting
- Water resistant construction
- Easy installation and handling
- For BVW-1/3, BVP-1/3, and conventional BVP series camera

Supplied accessories
Stand × 1
Screws × 4

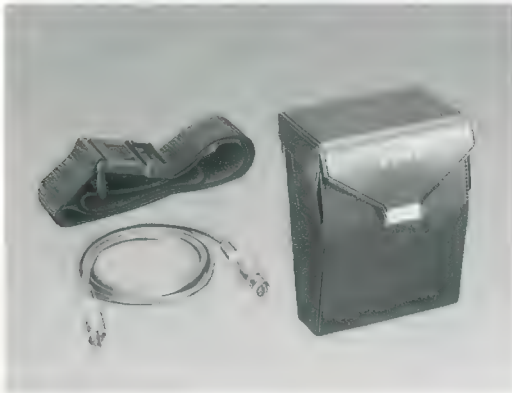
Specifications
Dimensions: 145.5(W) × 167(H) × 292mm(D)
(5.7 × 6.6 × 11.5")
Weight: 2.2 kg (4 lb 14 oz)
Power requirements: DC 10V - 17V
Power consumption: 10W
Picture frame: 72(H) × 96mm(W) underscan
(2.8 × 3.8")
Resolution: More than 600 lines at center
More than 500 lines at edges
Picture distortion: Less than ±3%
Operating temperature: -10°C to 50°C (14°F to 122°F)

Memory Battery (Parts No. 1-528-072-00)



Rechargeable battery for white balance memory
3.6V 500mAhr.
Supplied with BVP-110/250/300A/330/330A series camera.

DC-210 Battery Case



- Battery case for the BP-90 battery pack
- Supplies DC 12V to Sony video equipment

Supplied accessories
Power cord (1.2m) × 1
Belt

Dimensions: 145(W) × 180(H) × 85mm(D)
(5.7 × 7 × 3.3")
Weight: 500 g (1 lb 2 oz)

DC-310 Battery Case



- Battery case for BVP series 3-tube camera and CA-3/CA-30/CA-300 equipped camera
- Up to two NP-1 batteries can be equipped

Supplied accessories
Holder × 1
Screws × 1 set

Dimensions: 86(W) × 203(H) × 77mm(D)
(3.5 × 8 × 3.1")
Weight: 630 g (1 lb 6 oz)

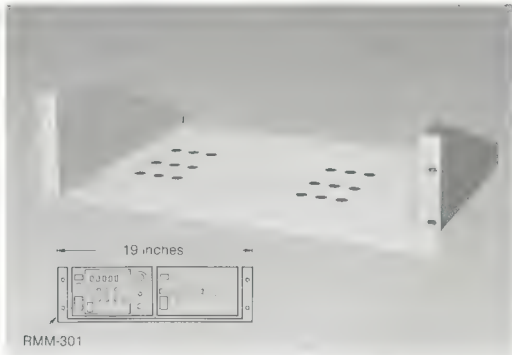
DC-300 Battery Case



- BP-90 battery case for BVP-250, 300A, 330/330A series camera and CA-3/CA-30/CA-300 equipped camera

Dimensions: 163(W) × 185(H) × 47mm(D)
(6.4 × 7.3 × 1.9")

RMM-301 Rack Mount Adaptor

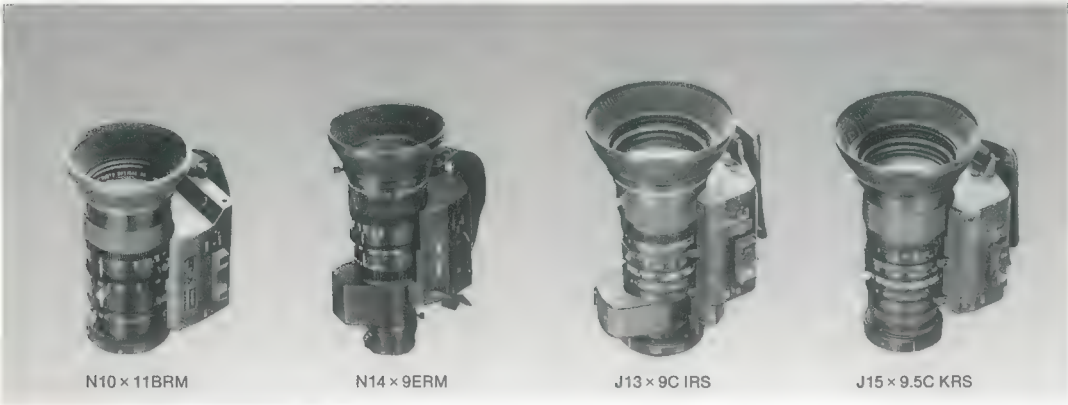


- The DCU-300 CCU adaptor and the CCU-300 can be rack mounted side by side in a standard EIA rack.

Dimensions: 482(W) × 132(H) × 330mm(D)
(19 × 5.2 × 13")
Weight: 4.7 kg (10 lb 6 oz)

CONVERSION LENSES

* For more information, please refer to the Canon's or Fujinon's brochures.



ZOOM LENS FOR BVP-250/300A/330/330A/BVP-3* /BVW-3* SERIES

	A12 x 9BERM*	A14 x 9BERM*	A17 x 9BERM	A22 x 12.5BERM	A17 x 8.5BESM
Focal length	9 - 108mm	9 - 126mm	9 - 153mm	12.5 - 275mm	8.5 - 145mm
Zoom ratio	12x	14x	17x	22x	17x
Zoom extender	2x	2x	2x	2x	2x
Maximum aperture ratio	1.7	1.7	1.7	2.0	1.5
Iris control	Auto & manual	Auto & manual	Auto & manual	Auto & manual	Remote
Zooming control	Manual & motorized	Manual & motorized	Manual & motorized	Manual & motorized	Remote
Minimum object distance	0.95m	0.8m	0.9m	1.8m	0.7m
Range of object field W:	658 x 877mm	550 x 733mm	595 x 793mm	894 x 1192mm	666 x 874mm
(at M.O.D. with 1x) T:	55 x 73mm	39 x 52mm	36 x 48mm	41 x 54mm	39 x 51mm
Weight (with lens hood)	1.45 kg (3 lb 3 oz)	1.48 kg (3 lb 4 oz)	2.15 kg (4 lb 12 oz)	3.98 kg (8 lb 12 oz)	10.6 kg (23 lb 6 oz)
Optional remote controller	RM-S2 Powered zoom and served focus RM-S5 Powered zoom and manual focus				

* 12-pin connector (BVP-3 only) and 6-pin connector are available.

ZOOM LENS FOR BVP-250/300A/330/330A/BVP-3* /BVW-3* SERIES

	J13 x 9B4 IRS*	J15 x 9.5B4 KRS*	J15 x 8.5BIE	J20 x 8.5BIE
Focal length	9 - 117mm	9.5 - 143mm	8.5 - 128mm	8.5 - 170mm
Zoom ratio	13x	15x	15x	20x
Zoom extender	2x	—	2x	2x
Maximum aperture ratio	1.6	1.8	1.6	1.6
Iris control	Auto & manual	Auto & manual	Remote	Remote
Zooming control	Manual & motorized	Manual & motorized	Remote	Remote
Minimum aperture distance	0.8m	1m	0.6m	0.6m
Range of object field W:	542 x 722mm	647 x 862mm	603 x 819mm	604 x 819mm
(at M.O.D. with 1x) T:	42 x 56mm	43 x 57mm	40 x 52mm	30 x 39mm
Weight	1.5 kg (3 lb 5 oz)	1.5 kg (3 lb 5 oz)	9.5 kg (20 lb 15 oz)	8 kg (17 lb 10 oz)
Optional remote controller	Available	Available	Available	Available

* 12-pin connector (BVP-3 only) and 6-pin connector are available.

ZOOM LENS FOR BVW-1/BVP-1/BVP-110 SERIES

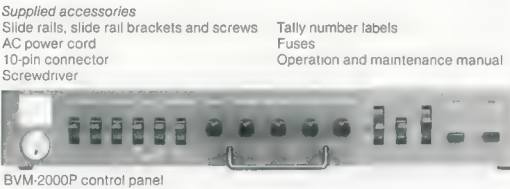
	N10 x 11BRM	N14 x 9ERM	J13 x 9C IRS	J15 x 9.5C KRS
Focal length	11 - 110mm	9 - 126mm	9 - 117mm	9.5 - 143mm
Zoom ratio	10x	14x	13x	15x
Zoom extender	—	—	2x	—
Maximum aperture ratio	1.6	1.7	1.6	1.8
Iris control	Auto & manual	Auto & manual	Auto & manual	Auto & manual
Zooming control	Manual & motorized	Manual & motorized	Manual & motorized	Manual & motorized
Minimum object field W:	557 x 743mm	550 x 733mm	542 x 722mm	647 x 862mm
(at M.O.D. with 1x) T:	56 x 74mm	39 x 52mm	42 x 56mm	43 x 57mm
Weight	1.2 kg (2 lb 10 oz)	1.5 kg (3 lb 5 oz)	1.45 kg (3 lb 3 oz)	1.5 kg (3 lb 5 oz)

MONITORS

BVM-1900/2000P/2000S 19-inch (20-inch) Color Monitor



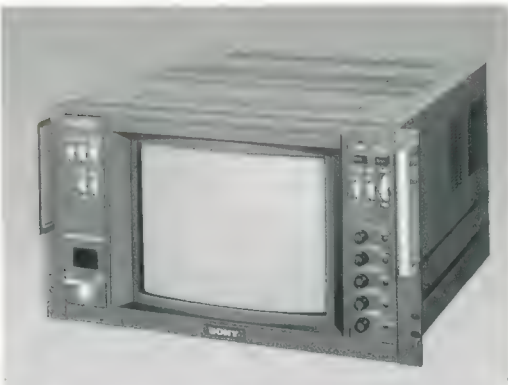
- 900 TV lines center resolution at 30 FL.
- Aperture correction at 4.5MHz and 9.0MHz
- Unique display set up function for accurate alignment
- Built-in cross hatch generator
- Inputs for composite or non-composite R.G.B. with external sync input.
- Decoded R-Y and B-Y outputs
- Matrixed R.G. and B outputs
- Raster size stability within ±1% from 0 to 100% APL at 30 FL.
- Over-drive protection circuit protects picture tube damage
- Comb filter (NTSC)/Notch filter (PAL)
- 19-inch rack mountable



SPECIFICATIONS

		BVM-1900	BVM-2000P/2000S
		525 lines 60 fields NTSC	625 lines 50 fields PAL/SECAM
General	System	525 lines 60 fields NTSC	625 lines 50 fields PAL/SECAM
	Power requirements	AC 100/120/220/240V ±10% selectable	
	Power consumption	Typical 248W, Max. 280W	Typical 248W, Max. 280W
	Dimensions	580(W) × 456(H) × 621(D)mm (19 × 18 × 24.5")	
	Weight	49.2 kg (108 lb 7 oz)	
Input performance	R.G.B. VIDEO inputs TEST	0.714Vp-p non-composite or 1Vp-p composite video signal ±6dB positive, loop-through, high impedance	0.714Vp-p non-composite or 1Vp-p composite video signal ±6dB positive, loop-through, high impedance
	EXT SYNC inputs	4Vp-p ±6dB negative, loop-through, high impedance	4Vp-p ±6dB negative, loop-through, high impedance
	Return loss	At least 46dB (7MHz with 75 ohms termination)	At least 46dB (7MHz with 75 ohms termination)
	Maximum safe input DC	±5V	±5V
RGB performance	Differential gain	Within 2% for luminance from zero to 30 FL	Within 2% for luminance from zero to 30 FL
	Differential phase	Within 2 degrees for luminance from zero to 30 FL	Within 2 degrees for luminance from zero to 30 FL
	Frequency response	100Hz to 10MHz ±1dB	100Hz to 10MHz ±1dB
	DC restoration	Back porch type Back porch level: Within 1% of peak luminance, 10% to 90% APL (Average Picture Level)	Back porch type Back porch level: Within 1% of peak luminance, 10% to 90% APL (Average Picture Level)
Picture performance	Height	291mm (11.5")	291mm (11.5")
	Width	384mm (15.1")	384mm (15.1")
	Underscan	Approximately 10% reduction	Approximately 10% reduction
	Linearity	Within a central area bounded by a circle whose diameter equals the picture height, within 1% of the picture height	Within a central area bounded by a circle whose diameter equals the picture height, within 1% of the picture height
NTSC/PAL performance	Color temperature	6500 degrees K, adjustable to other color temperatures	6500 degrees K, adjustable to other color temperatures
	Differential gain	Within 2% for a luminance from zero to 30 FL	Within 2% for a luminance from zero to 30 FL
	Differential phase	Within 2 degrees for a luminance from zero to 30 FL	Within 2 degrees for a luminance from zero to 30 FL
	Frequency response	Monochrome mode 100Hz to 10MHz ±1dB (Aperture correction at zero) Color mode Trap or Comb Filter removes frequency in 3.58MHz region	Monochrome mode 100Hz to 10MHz ±1dB (Aperture correction at zero) Color mode Notch Filter removes frequency in 4.43MHz region (PAL)
	Aperture correction	Adjustable continuously up to 8dB boost at 4.5MHz or 9MHz (selectable)	Adjustable continuously up to 8dB boost at 4.5MHz or 9MHz (selectable)

BVM-1201/1301P/1301S/1301PM 12-inch (13-inch) Color Monitor



- 600 TV lines center resolution at 20 FL
- Aperture correction, up to 8dB boost at 4.5MHz
- Built-in cross hatch generator
- Inputs for composite video or non-composite R.G.B. with external sync input
- Decoded R-Y and B-Y outputs
- Fast/slow AFC switch
- Automatic color, B/W mode selection
- Over-drive protection circuit protects picture tube damage
- LED tally lamp with remote control

Supplied accessories
Slide rails, slide rail brackets and screws
AC power cord
10-pin connector
Screwdriver
Voltage indication label
Operation and maintenance manual

SPECIFICATIONS

		BVM-1201	BVM-1301P/1301S	BVM-1301PM
		525 lines 60 fields NTSC	625 lines 50 fields PAL/SECAM	525 lines 60 fields PAL-M
General	System	525 lines 60 fields NTSC	625 lines 50 fields PAL/SECAM	525 lines 60 fields PAL-M
	Power requirements	AC 100/120/220/240V ±10% selectable		
	Power consumption	Typical 136W, Max. 160W	Typical 136W, Max. 160W	Typical 136W, Max. 160W
	Dimensions (cabinet type)	424(W) × 276(H) × 454mm(D) (16.7 × 10.9 × 17.9")		
	Weight (cabinet type)	26 kg (57 lb 5 oz)		
Input performance	R.G.B. VIDEO inputs TEST	0.7Vp-p non-composite or 1Vp-p composite video signal ±6dB positive, loop-through, high impedance	0.7Vp-p non-composite or 1Vp-p composite video signal ±6dB positive, loop-through, high impedance	0.7Vp-p non-composite or 1Vp-p composite video signal ±6dB positive, loop-through, high impedance
	EXT SYNC inputs	1 - 8Vp-p negative, loop-through, high impedance	1 - 8Vp-p negative, loop-through, high impedance	1 - 8Vp-p negative, loop-through, high impedance
	Return loss	At least 46dB to 5MHz with 75 ohm termination (not internally terminated)	At least 46dB to 5MHz with 75 ohm termination (not internally terminated)	At least 46dB to 5MHz with 75 ohm termination (not internally terminated)
	Maximum safe input DC	±5 volts	±5 volts	±5 volts
RGB performance	Differential gain	Within 2% for a luminance from zero to 20 FL	Within 2% for a luminance from zero to 20 FL	Within 2% for a luminance from zero to 20 FL
	Differential phase	Within 2 degrees for a luminance from zero to 20 FL	Within 2 degrees for a luminance from zero to 20 FL	Within 2 degrees for a luminance from zero to 20 FL
	Frequency response	100Hz to 8MHz ±1dB	100Hz to 8MHz ±1dB	100Hz to 8MHz ±1dB
	DC restoration	Back porch type Back porch level within 1% of peak luminance from 10% to 90% APL	Back porch type Back porch level within 1% of peak luminance from 10% to 90% APL	Back porch type Back porch level within 1% of peak luminance from 10% to 90% APL
Picture performance	Height	182mm (7.16")	182mm (7.16")	182mm (7.16")
	Width	239mm (9.4")	239mm (9.4")	239mm (9.4")
	Underscan	Approximately 10% reduction	Approximately 10% reduction	Approximately 10% reduction
	Linearity	Within a central area bounded by a circle whose diameter equals the picture height, within 1% of the picture height	Within a central area bounded by a circle whose diameter equals the picture height, within 1% of the picture height	Within a central area bounded by a circle whose diameter equals the picture height, within 1% of the picture height
NTSC/PAL performance	Color temperature	6500 degrees K, adjustable to other standards	6500 degrees K, adjustable to other standards	6500 degrees K, adjustable to other standards
	Differential gain	Within 2% for a luminance from zero to 20 FL	Within 2% for a luminance from zero to 20 FL	Within 2% for a luminance from zero to 20 FL
	Differential phase	Within 2 degrees for a luminance from zero to 20 FL	Within 2 degrees for a luminance from zero to 20 FL	Within 2 degrees for a luminance from zero to 20 FL
	Frequency response	Monochrome mode 100Hz to 6.5MHz ±1dB (Aperture correction at zero) Color mode Notch filter removes frequency in 3.58MHz region	Monochrome mode 100Hz to 6.5MHz ±1dB (Aperture correction at zero) Color mode Notch filter removes frequency in 4.43MHz region (PAL)	Monochrome mode 100Hz to 6.5MHz ±1dB (Aperture correction at zero) Color mode Notch filter removes frequency in 4.43MHz region
	Aperture correction	A continuously adjustable front panel control provides up to 8dB boost at 4.5MHz	A continuously adjustable front panel control provides up to 8dB boost at 4.5MHz	A continuously adjustable front panel control provides up to 8dB boost at 4.5MHz

MONITORS

BVM-2002PS 20-inch Color Monitor
(PAL/SECAM)



- Switchable PAL/SECAM with front panel switch
- 650 TV lines center resolution
- Accepts 3 video inputs (ch-A, ch-B, TEST)
- External sync input
- 3-position mode (auto, color, B/W) selector
- 3-position delay (H, V, H/V) selector
- Scan mode (normal/under) selector
- Tally light facility
- 19-inch rack mountable

Supplied accessories
Number plates x 5
4-pin connectors x 2
Screwdriver

BVM-1302P 13-inch Color Monitor
(PAL)



- 450 TV lines center resolution
- Accepts 3 video inputs (ch-A, ch-B, TEST)
- External sync input
- 3-position mode (auto, color, B/W) selector
- 3-position delay (H, V, H/V) selector
- Scan mode (normal/under) selector
- Tally light facility
- 19-inch rack mountable

Supplied accessories
Number plates x 5
4-pin connector x 2

SPECIFICATIONS

	BVM-2002PS	BVM-1302P
Picture tube	Trinitron 52cm (20") visible picture size 48cm (19") measured diagonally, 90° deflection	Trinitron 33cm (13") visible picture size 31cm (12") measured diagonally, 90° deflection
Video input	0.5 - 2.0Vp-p composite 0.7Vp-p non-composite	
Sync input	1.0 - 8.0Vp-p, 4.0Vp-p nominally	
Video/sync impedance	High impedance for loop-through, 75-ohm terminated	
Horizontal resolution	650 TV lines	450 TV lines
Power requirements	AC 220/240V selectable, 50/60Hz	
Power consumption	155W	100W
Dimensions	Approx. 480(W) x 456(H) x 636.5mm(D) (19 x 18 x 25")	Approx. 480(W) x 284(H) x 512mm(D) (19 x 11.2 x 20.1")
Weight	Approx. 50 kg (110 lb 4 oz)	Approx. 25 kg (55 lb 2 oz)

BVM-4050 4-inch Portable Color Monitor
(NTSC)



- Trinitron tube enables stable and geometrically accurate high brightness display
- Horizontal and vertical delay display
- Blue only function
- Adjustable hood for operation under high lighting condition
- Robust package (one piece assemble, high impact metal)
- Lightweight (only 2.9 kg, 6.3 lb)

Optional accessories
DC-4050: Battery adaptor
BP-90: Rechargeable battery pack

Specifications

GENERAL	
Video system:	NTSC color, 525 lines/60 fields, interlaced
Video inputs:	A input: 1.0Vp-p ±6dB, composite, 75 ohms loop-through B input: 1.0Vp-p ±6dB, composite, 75 ohms terminated A and B selectable, BNC connectors
Power requirement:	DC 12V
Power consumption:	18W max. (DC 12V)
Operating temperature:	0°C to 40°C (32°F to 104°F)
Dimensions:	114(W) x 133(H) x 286mm(D) (4.5 x 5.2 x 11.3")
Weight:	2.9 kg (6 lb 6 oz)
NTSC PICTURE PERFORMANCE	
Screen size:	76(W) x 57mm(H) (3 x 2.2")
Scan delay:	Horizontal, approx. 1/4 line Vertical, approx. 1/3 field
Convergence error:	Less than 0.2mm at center
Raster size stability:	Less than 5% picture height, zero to 100% APL at 30 FL peak luminance
Resolution:	230 TV lines center at 20 FL luminance, 3.58MHz notch filter

BVE-5000/5000P Editing System
(NTSC) (PAL)



- Fully integrated system: Powerful CPU with operating program in ROM specifically designed for on-line and off-line editing applications
- SMPTE/EBU LTC and VITC: Automatic selection of SMPTE/EBU time code or VITC provides frame accurate data at any VTR speed including stop motion
- Learn mode: Non-standard speed curve on both "to" and "from" VTRs memorized as part of the edit event
- Look Ahead Search: Anticipates next event in auto edit placing next VTR in preroll
- Auto/Semi-Auto List Clean Up
- Keyboard: In logical function group
- CRT display: Clear, high resolution display or active event; other events easily recalled
- Special effects: Internal special effects generation plus control of external production switchers
- TTY readout: High speed TTY Edit Decision List output with punched paper tape in Sony or CMX format
- Modular construction
- Optimized system
- Integration

Specifications
Keyboard dimensions: 600(W) × 80(H) × 220mm(D) (23.6 × 3.1 × 8.7")
Keyboard weight: 6 kg (13 lb 4 oz)
Control section dimensions: 570(W) × 1000(H) × 650mm(D) (22.4 × 39.4 × 25.6")
Control section weight: 120 kg (264 lb 9 oz)
Operating temperature: 5°C to 40°C (41°F to 104°F)
Storage temperature: -10°C to 60°C (14°F to 140°F)
Power consumption: 1.2kVA

BVE-3000/3000P Editing System
(NTSC) (PAL)



Operator's console

- Three-VTR editing with A/B roll capability
- SMPTE/EBU time code and VITC editing
- Editing console designed to reduce operator keystrokes
- Automatic synchronous preview and record modes
- Edit memory and list management
- External/Internal switcher control
- Color framing
- Software based diagnostic routines

Specifications
Power requirements:
Operator's console: AC 100 to 240V, 48 to 64Hz, 130W
Card rack unit: AC 100 to 240V, 48 to 64Hz, 180W
Operating temperature: 5°C to 40°C (41°F to 104°F)
Storage temperature: -20°C to 60°C (-4°F to 140°F)
Humidity: 10 to 90% RH, non-condensing
Dimensions
Operator's console: 597(W) × 318(H) × 521mm(D) (23.5 × 12.5 × 20.5")
Card rack unit: 429(W) × 280(H) × 521mm(D) (16.9 × 11.0 × 20.5")
Weight:
Operator's console: 24.6 kg (54 lb 4 oz)
Card rack unit: 32.8 kg (72 lb 50 oz)



Card rack unit (supplied)

BVE-800 Edit Control Unit
(NTSC/PAL/SECAM/PAL-M)



- Time code/CTL editing
- Three-VTR editing with A/B roll
- Quick access to edit point
- Ten-key Input/Scrachpad register
- Multi-event memory
- Auto search function
- First edit function
- Split editing
- Cue-tone recording/playback

Supplied accessories
AC power cord
Extension board
Dust cover
Operating and maintenance manual

Specifications
Power requirements: AC 100 to 240V, 50/60Hz
Power consumption: 75W (max.)
Weight: 13.3 kg (29 lb 5 oz)
14.5 kg (31 lb 15 oz) with BK board mounted
Operating temperature: 5°C to 40°C (41°F to 104°F)
Storage temperature: -20°C to 60°C (-4°F to 140°F)
Dimensions: 424(W) × 190(H) × 550mm(D) (16.6 × 7.5 × 21.7")

BVS-500 Video/Audio Switcher



- Five Video/Audio input selection
- External sync input
- Cue-tone recording
- 19-inch rack mountable
- Remote switcher for BVE-800

Supplied accessories
AC power cord
Screws for rack mounting
Washers
Operation and maintenance manual

Specifications
Dimensions: 424(W) × 126(H) × 280mm(D) (16.7 × 5 × 11")
Weight: 8.9 kg (19 lb 10 oz)
Power requirements: AC 100/110/120/127/220/240V ±10% (selectable)
50/60Hz
Power consumption: 20W
Operating temperature: 5°C to 40°C (41°F to 104°F)
Storage temperature: -20°C to 60°C (-4°F to 140°F)

BVE-800 ACCESSORIES

Model	Description	Applicable VTR
BK-807	9-pin interface board	BVU-800/820 series
BK-808	36-pin recorder interface board	BVU-200 series
BK-809	36-pin player interface board	—
BK-810	Cue tone REC/PB board	—
RCC-5C	BVS-500 remote cable (20-pin)	—
BVS-500	Video/audio switcher	—

BVE-3000/3000P ACCESSORIES

Model	Description	Applicable VTR
BKE-3001	9-pin/10-pin interface board	BVH-1100 series BVH-2000 series BVU-800 series
BKE-3002	Internal switcher interface board	—
BKE-3005	External switcher interface board	—
BKE-3006	CRT/TTY interface board	—
BK-1002	36-pin interface board	BVU-200 series

BVE-5000/5000P ACCESSORIES

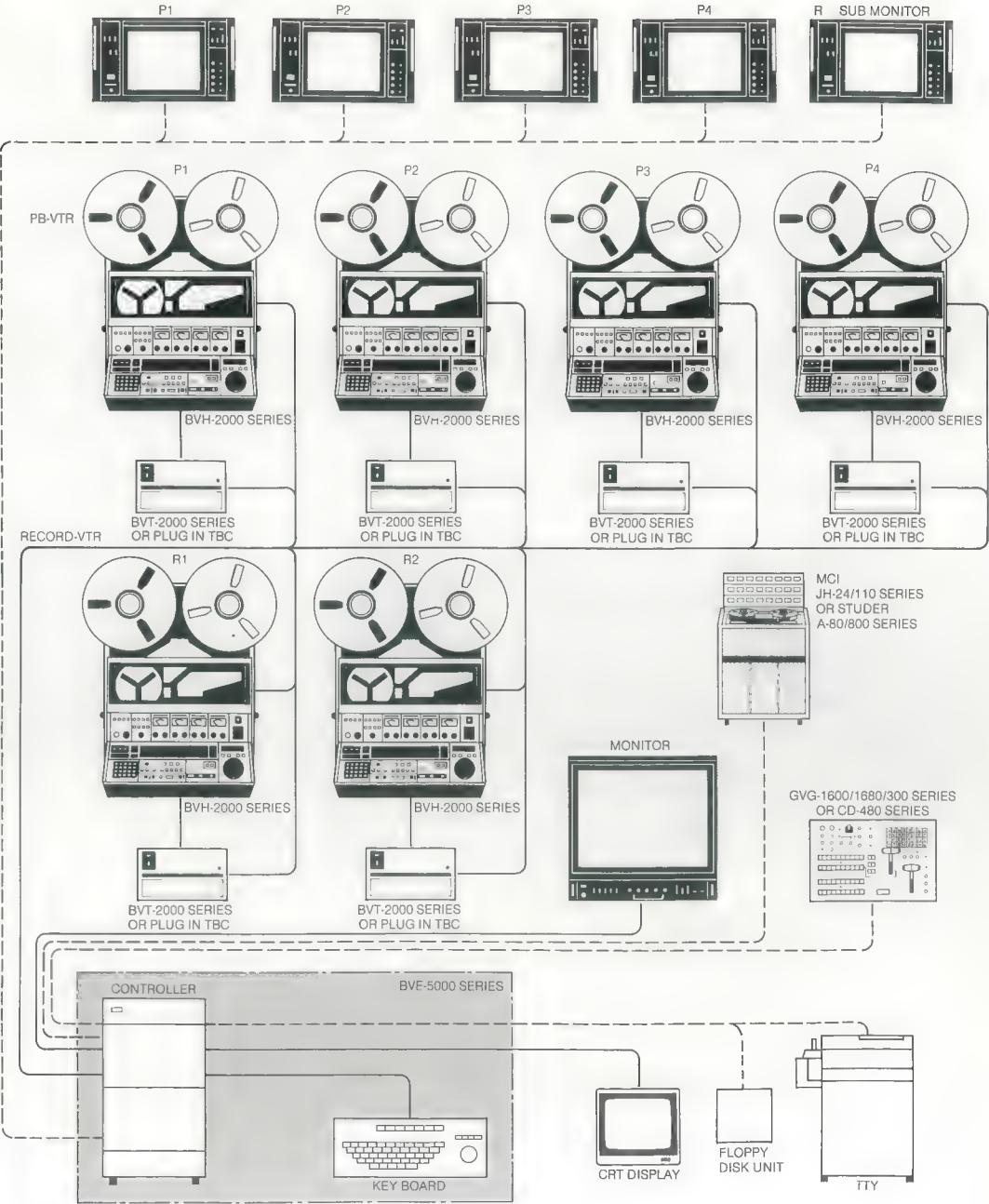
Model	Description	Applicable VTR
BK-5001	Time code reader board	—
BK-5002A	10-pin interface board	BVH-1100 series
BK-5003	36-pin interface board	BVU-200 series
BK-5004	General purpose interface board	—
BK-5005	9-pin interface board	BVH-2000 series BVU-800/820 series
BK-5006	ART interface board	—
BK-5021	Parallel switcher interface board	—
BK-5022A	Serial switcher interface board	—
BK-5031	RS-232C interface board	—
BK-5032	RS-232C interface board	—
CPD-5001/ 5001CE	Computer display monitor	—

FEATURE REFERENCE

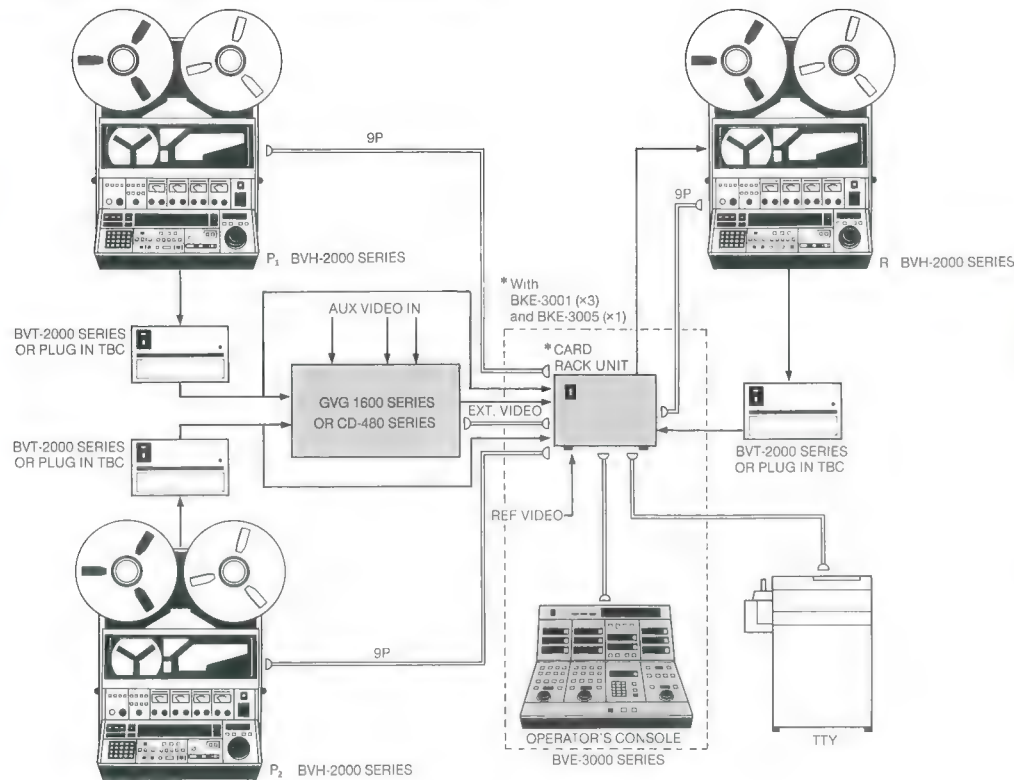
Model	Model	Model	Model	Model	Model
Main feature	Model	Model	Model	Model	Model
CTL reference	YES	YES	YES	YES	—
LTC reference	YES	YES	YES	YES	YES
VITC reference	—	YES	—	YES	YES
2-machine control	YES	YES	YES	YES	YES
3-machine control	—	—	YES	YES	YES
8-machine control	—	—	—	—	YES
Color framing	—	YES	YES	YES	YES
CRT interface	—	—	—	YES	YES
TTY interface	—	—	YES	YES	YES
SEG interface	—	—	—	YES	YES
Internal switcher	—	—	—	YES	YES
Sync roll	—	—	—	YES	YES
10-key board	—	YES	YES	YES	YES
Slave lock	—	YES	YES	YES	YES
Audio split edit	—	YES	YES	YES	YES
Multi-event memory	—	—	YES	YES	YES
List management	—	—	—	YES	YES
DT interface	—	YES	—	—	YES
* E-MEM interface	—	—	—	—	YES
ATR interface	—	—	—	—	YES
GPI interface	—	—	—	YES	YES

* Trademark of Grass Valley Group Inc.

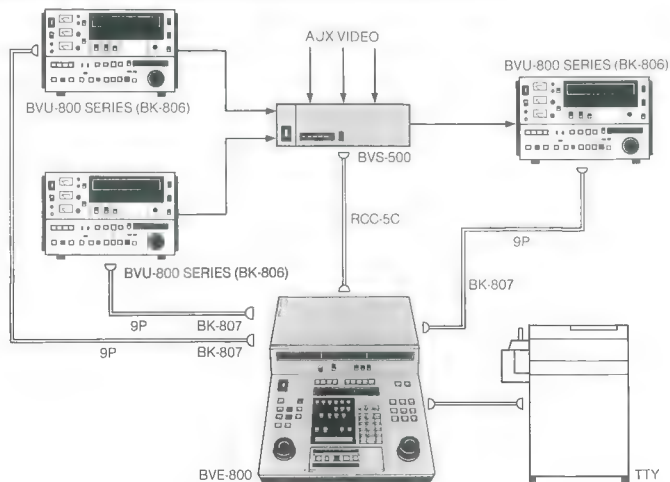
TYPICAL CONNECTIONS FOR BVE-5000/5000P



TYPICAL CONNECTIONS FOR BVE-3000/3000P



TYPICAL CONNECTIONS FOR BVE-800 (TIME CODE EDITING)



TIME BASE CORRECTORS

BVT-2000/2000P/2000S/2000PM
(NTSC) (PAL) (SECAM) (PAL-M)

Digital Time Base Corrector



- Correction range of 12Hp-p (NTSC/PAL-M)
- Correction range of 20Hp-p (PAL/SECAM)
- Dynamic Tracking playback with BVH-1100/1100A/1180/2000 series and BVU-820 series VTR's
- 9 bits (NTSC/PAL-M), 8 bits (PAL/SECAM), 4xfsc sampling
- 1H prior drop-out compensation with digital Y/C separation
- Built-in velocity error compensation
- Built-in sync generator
- Built-in video processor
- Built-in automatic advanced sync generator
- Synchronized to external reference signal with high and low tape speed
- Simultaneous playback monitoring
- Remote control facility

Supplied accessories
AC power cord
Extension board
Rack mount metals
CCY cable
Operation and maintenance manual

Optional accessories for BVH-2000 series
BK-2001 8-line memory board for NTSC
BK-2003 NTSC heterodyne color processor
BK-2004 PAL heterodyne color processor
BK-2005 PAL-M heterodyne color processor
BK-2006 NTSC remote control unit
BK-2007 PAL remote control unit
BK-2008 PAL-M remote control unit

Specifications
Power requirements: AC 100/120/220/240V $\pm 10\%$ selectable, 48 - 64Hz
Power consumption: 620W
Operating temperature: 0°C - 40°C (32°F to 104°F)
Humidity: 10% - 90% non-condensing
Weight: 40 kg (88 lb)
Dimensions: 424(W) \times 265(H) \times 586mm(D)
(16.7 \times 10.4 \times 23")

BVT-800/800PS(P)/800PS(S)
(NTSC) (PAL) (SECAM)

Digital Time Base Corrector



- TBC for capstan servo color under VTR's
- Compact and lightweight
- 15Hp-p window correction (NTSC)
- 29Hp-p window correction (PAL, SECAM)
- DT operation with BVU-820 series (-1 to 3 times normal speed)
- Connection with one multi-core cable for BVU-800/820 series U-matic
- 8 bits, 3x fsc sampling (NTSC)
- 8 bits, Y: 10.9MHz/C: 5.4MHz sampling (PAL, SECAM)
- Built-in process mode (NTSC)
- Recognizable B/W picture up to ± 40 times normal speed
- Built-in digital DOC
- 1H (NTSC)/Y-1H C-2H (PAL, SECAM) prior
- Remote control capability
- Selectable V-blanking

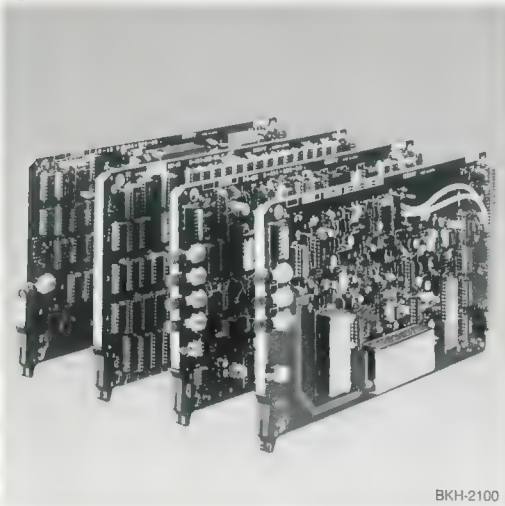
Supplied accessories
Multi-cable
Extension cord
Rack mounting metals
Operation and maintenance manual

Optional accessories
BKT-801 PAL sync generator board
BKT-802 SECAM sync generator board

Specifications
Power requirements: AC 100 - 120V (90 - 132V)/220 - 240V (198 - 264V)
50/60Hz (48 - 62Hz)
Power consumption: 90W (NTSC), 100W (PAL, SECAM)
Operating temperature: 0°C to 40°C (32°F to 104°F)
Storage temperature: -10°C to 60°C (14°F to 140°F)
Humidity: 10 - 90%
Dimensions: 424(W) \times 88(H) \times 515mm(D)
(16.7 \times 3.5 \times 20.2")
Weight: 11 kg (24 lb 4 oz) NTSC
13 kg (28 lb 11 oz) PAL/SECAM

TIME BASE CORRECTORS

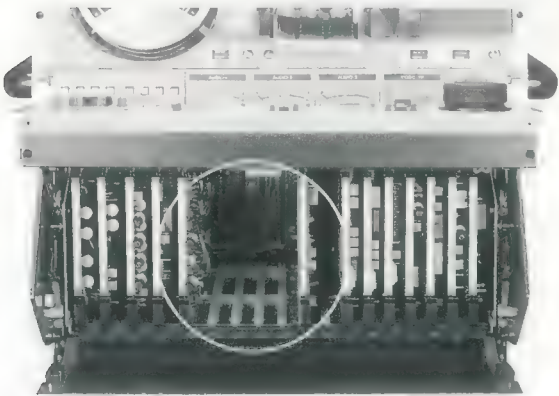
BKH-2100/2300/2400
(NTSC) (PAL/SECAM) (PAL-M)
Digital Time Base Corrector for BVH-2000 series



BKH-2100

- Consists of 4 circuit boards (plug-in type)
- PAL/SECAM selectable with a switch (BKH-2300)
- 1Hp-p window correction
- 8 bits, 4x fsc sampling
- Recognizable B/W picture, up to ± 50 times normal speed
- Selectable vertical blanking width
NTSC/PAL-M: 10H to 21H
PAL/SECAM: 7H to 23H
- Remote control capability
- New velocity compensator (with quadratic compensation)

Specifications
Dimensions: 23(W) x 155(H) x 325mm(D) each board
(1.5 x 10.2 x 21.5")
Total weight: 2.5 kg (5 lb 8 oz)
Operating temperature: 5°C to 40°C (41°F to 104°F)
VIDEO
Frequency band width: DC to 4.2MHz ± 0.3 dB (NTSC/PAL-M)
DC to 5.0MHz ± 0.3 dB (PAL/SECAM)
55dB (NTSC/PAL-M)/53dB (PAL/SECAM)
S/N: Less than 2%
DG: Less than 2%
DP: Less than 1%
K-factor: Less than 1%
Window: 1Hp-p
Residual error (color): Within ± 3.0 ns (PAL/SECAM)
 ± 2.5 ns (NTSC/PAL-M)
Residual error (monochrome): Within 15 ns
Y/C delay: Within 20 ns
Processor-adjustable range
Output video level: ± 3 dB
 ± 3 dB
Chroma level: 0 to 15 IRE (NTSC/PAL-M)/
0 to 100mV (PAL/SECAM)
Black level/set-up level: $\pm 15^\circ$ (NTSC/PAL-M) $\pm 10^\circ$ (PAL/SECAM)
Chroma burst phase/hue: More than 360°
System SC phase: -1 to +3 μ s
System sync phase:



BVH-2000

TIME CODE GENERATOR/READERS

BVG-100/100PS Portable Time Code Generator
(NTSC/PAL-M) (PAL/SECAM)



- LTC and VITC generator
- Normal speed LTC reader function
- Slave/extrapolation capability
- Color frame lock
- Error concealment capability
- Hold/remote hold function
- User bits

Supplied accessories
6-pin cable plug for remote control
Reference labels (hexa decimal number and tens frame digit notation)
Operation and maintenance manual

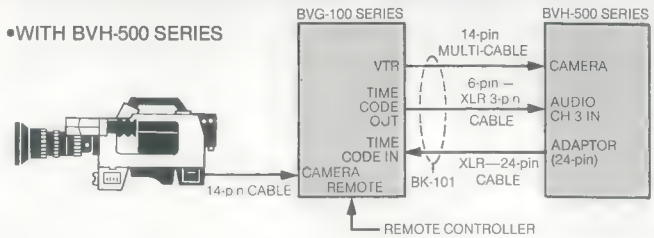
Specifications
Dimensions: 114(W) x 50(H) x 154mm(D) (4.5 x 2 x 6")
(including projecting parts and controls)
Weight: 700 g (1 lb 9 oz) including battery
Operating temperature: 0°C to 40°C (32°F to 104°F)
Storage temperature: -20°C to 60°C (-4°F to 140°F)
Power requirements: DC 9 - 18V, supplied from VTR or battery (6F22)
Power consumption: 10mA max.
When POWER is off 0.4mA max.
When light is on 70mA max.

OPTIONAL ACCESSORIES FOR BVG-100 SERIES

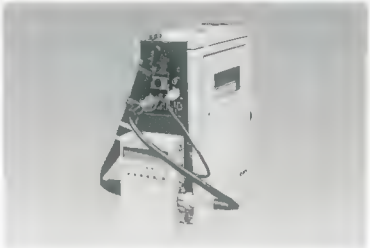
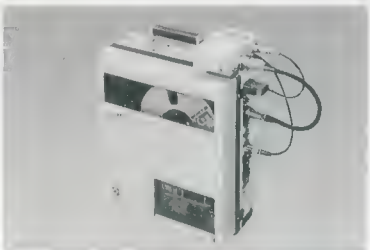
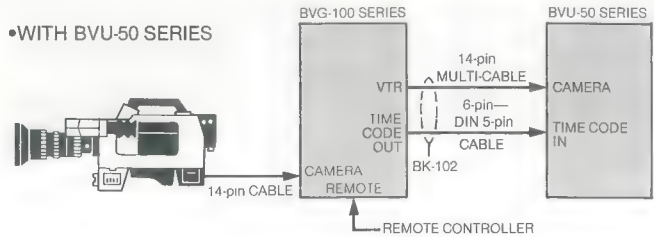
BK-101	BK-102	BK-103
Interface kit for BVH-500 series	Interface kit for BVU-50 series	Interface kit for BVU-100 series
14-pin—14-pin multi-cable (connecting to VTR, 0.4m) 6-pin—XLR 3-pin cable (time code output cable, 0.36m) XLR 3-pin—24-pin cable (time code input cable, 0.23m) Mounting plate	14-pin—14-pin multi-cable (connecting to VTR, 0.4m) 6-pin—DIN 5-pin cable (time code output cable, 0.23m) Mounting adaptor Mounting plate	14-pin—10-pin/XLR 3-pin cable (connecting to VTR, 0.4m) 6-pin—DIN 5-pin cable (time code output cable, 0.23m) Mounting adaptor Mounting plate

TYPICAL CONNECTIONS FOR BVG-100 SERIES

•WITH BVH-500 SERIES



•WITH BVU-50 SERIES



TIME CODE GENERATOR/READERS

BVG-1500/1500PS Time Code Reader



- Readout capability of LTC/VTC and user bits
- Built-in character generator
- 8-digit LED display/display hold
- Waveform processing function (LTC)
- Various mode indication
- Frame suppress function
- Compact and lightweight
- TTY interface capability with BKG-1501 (optional)

Supplied accessories

- 50-pin ribbon connector
- 6-pin connector
- Rack mount metal kit
- Labels for remote indicator
- Operation and maintenance manual

Specifications

Power requirements: AC 100 - 120/220 - 240V $\pm 10\%$, 50/60 Hz
Power consumption: Less than 20W
Operating temperature: 0°C to 40°C (32°F to 104°F)
Storage temperature: -20°C to 60°C (-4°F to 140°F)
Dimensions: 424(W) x 44(H) x 330mm(D) (16.7 x 1.7 x 13")
Weight: Approx. 4 kg (8 lb 13 oz)

BVG-1600/1600PS Time Code Generator



- LTC/MTC generator
- Hexa decimal user bits data setting
- Normal speed LTC reader function
- Slave/Extrapolation capability
- Time code color frame lock capability
- 8-digit LED display
- Various mode indication

Supplied accessories

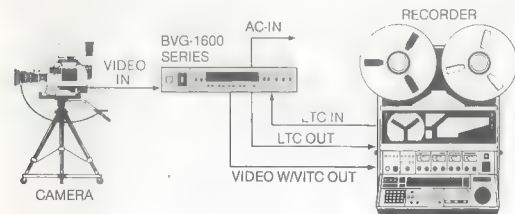
50-pin cable
50-pin ribbon connector
6-pin connector
Rack mount metal kit
Labels for remote indicator
Operation and maintenance manual

Specifications

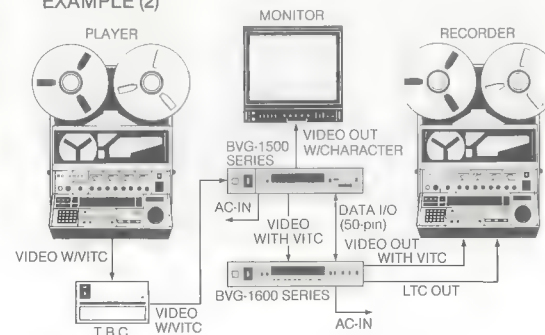
Power requirements: AC 100 - 120/220 - 240V $\pm 10\%$, 50/60 Hz
Power consumption: Less than 20W
Operating temperature: 0°C to 40°C (32°F to 104°F)
Storage temperature: -20°C to 60°C (-4°F to 140°F)
Dimensions: 424(W) x 44(H) x 330mm(D) (16.7 x 1.7 x 13")
Weight: Approx. 4.5 kg (9 lb 15 oz)

BVG-1500, 1600 SERIES TYPICAL CONNECTIONS

EXAMPLE (1)



EXAMPLE (2)



ACCESSORIES

AC-500/500CE AC Adaptor



- Supplies DC power to the Sony BV-series equipment
- Genlock function by means of a VBS signal

Supplied accessories

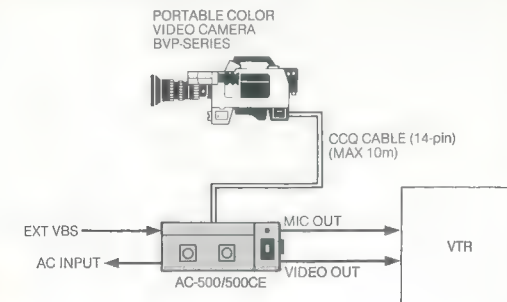
DC cord 2m (1-551-258-00) with XLR-4P

Specifications

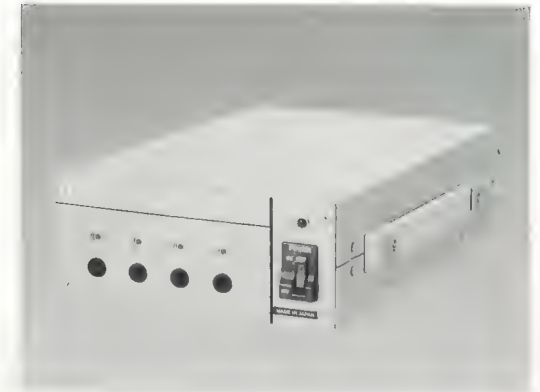
Power requirements: AC 100/110/220/240V adjustable, 50/60Hz
 Power consumption: 120W max.
 Input/output terminals: CAMERA connector (14-pin)
 VIDEO OUT connector (BNC type)
 NTSC 1Vp-p, 75 ohms
 MIC OUT connector (equivalent to XLR-3-31)
 Reference output: -60dBm
 600 ohms, balanced
 DC OUT connector (equivalent to XLR-4-31) +12.3V, 7A
 EXT VBS input connector (BNC type)
 VBS (1Vp-p) or BS, 75 ohms

Weight: 4.3 kg (9 lb 8 oz)
 Dimensions: 297(W) x 91(H) x 327mm(D) (8.5 x 3.6 x 12.9")

TYPICAL CONNECTIONS



BC-210/210CE Battery Charger for BP-90



- Battery charger for the BP-90 battery pack

Supplied accessory

AC power cord

Specifications

Power requirements: AC 100/110/220/240V adjustable 50/60Hz
Power consumption: 70W
Output terminals: BATTERY jacks (for charging x4)
2.0A (typical)
Charging time: Approx. 2 hrs per BP-90
Weight: 5.2 kg (11 lb 7 oz)
Dimensions: 217(W) x 91(H) x 320mm(D) (8.5 x 3.6 x 12.4")

BP-90 Rechargeable Battery Pack

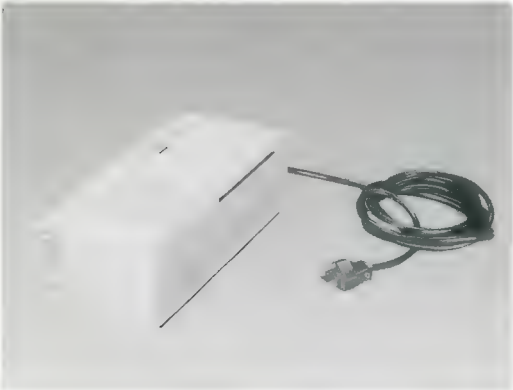


Specifications

Type of battery:	NiCd Rechargeable
Voltage:	12V
Current capacity:	3.5Ahr
Dimensions:	123(W) x 171(H) x 37mm(D) (4.8 x 6.9 x 15.1")
Weight	1.7 kg (3 lb 12 oz)

ACCESSORIES

BC-1W/1WCE Battery Charger for NP-1



- The BC-1W/1WCE is a battery charger for the NP-1 battery pack used in the Betacam
- Up to four NP-1 batteries can be charged sequentially

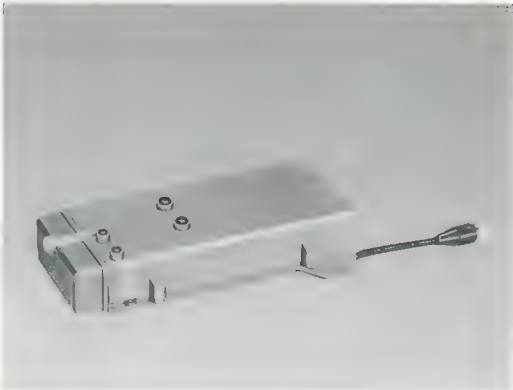
Specifications
Power requirements: BC-1W: AC 120V, 50/60Hz
BC-1WCE: AC 220/240V selectable, 50/60Hz
Power consumption: 58W
Charging time: Approx. 1 hr (max. 2 hrs)
Rechargeable battery: NP-1 only (per NP-1)
Weight: 2.4 kg (5 lb 5 oz)
Dimensions: 107.5(W) × 80(H) × 262mm(D) (4.2 × 3.1 × 10.3")

NP-1 Rechargeable Battery Pack



Specifications
Type of battery: NiCd Rechargeable
Voltage: 12V
Current capacity: 1.5 Ahr
Dimensions: 72(W) × 25(H) × 185mm(D) (2.8 × 1 × 7.3")
Weight: 680 g (1 lb 8 oz)

DC-100 Battery Case for NP-1



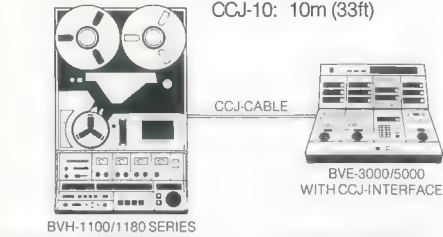
- Battery case for the NP-1 battery
- Specially designed for the BVV-1 Betacam recorder

Supplied accessories
Metal fitting × 2
Screw (B 3 × 6) × 2
Screw (B 4 × 6) × 2
Lace

Specifications
Dimensions: 84.5(W) × 204.2(H) × 51mm(D) (3.3 × 8 × 2")
Weight: 295 g (10 oz)

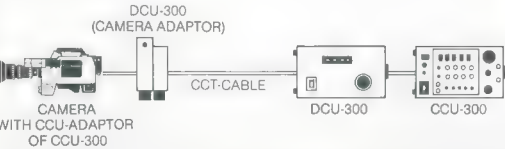
CCJ Cables

10-pin—10-pin Remote Cable for BVH-1100A/1180
CCJ-5: 5m (16ft)
CCJ-10: 10m (33ft)



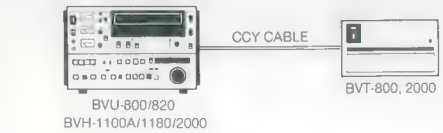
CCT Cables

Triax Cable for DCU-300
CCT-50: 50m (164ft)
CCT-100: 100m (328ft)
CCT-150: 150m (492ft)
CCT-300: 300m (984ft)



CCY Cable

18-pin—18-pin Cable for BVT-2000, BVT-800
CCY-3: 3m (10ft)
(supplied with BVT-2000, BVT-800)



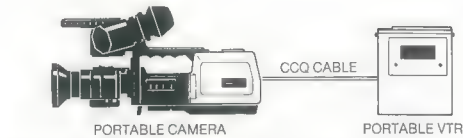
CCQZ Cables

14-pin (F)—26-pin (M) Cable for 14-pin equipped camera and BVV-1 with VA-1/1V.
CCQZ-2V: 2m (6.4ft)
CCQZ-10V: 10m (33ft)



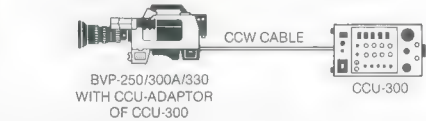
CCQ Cables

14-pin—14-pin Cable for Portable VTR and CAMERA
CCQ-2AR: 2m (6.4ft)
CCQ-5AR: 5m (16ft)
CCQ-10AR: 10m (33ft)



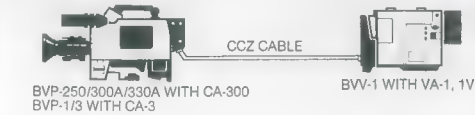
CCW Cables

41-pin—41-pin Cable for CCU-300
CCW-25: 25m (82ft)
CCW-50: 50m (164ft)
CCW-100: 100m (328ft)



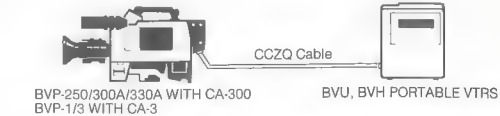
CCZ Cables

26-pin—26-pin Cable for VA-1/1V and CA-3/CA-300
CCZ-2: 2m (6.4ft)
CCZ-10: 10m (33ft)



CCZQ Cables

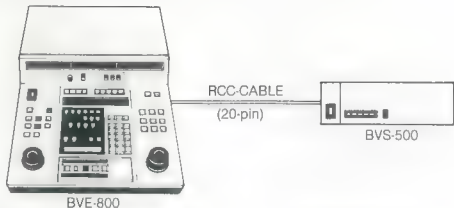
26-pin (F)—14-pin (M) Cable for CA-3/300 and U-matic, 1-inch Portable VTR
CCZQ-2: 2m (6.4ft)
CCZQ-10: 10m (33ft)



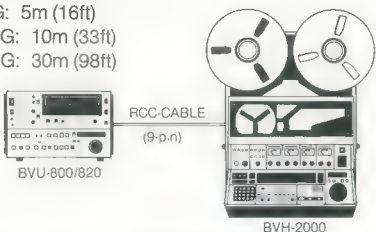
ACCESSORIES

* For more information, please refer to the service manual "Connecting Cable Manual". (#9-966-624-02)


RCC-C Cables
20-pin—20-pin Remote Cable for BVS-500
RCC-5C: 5m (16ft)
RCC-10C: 10m (33ft)



RCC-G Cables
9-pin—9-pin, RS-422 Remote Control Cable for BVH-2000, BVU-800/820, BVW-10/40
RCC-5G: 5m (16ft)
RCC-10G: 10m (33ft)
RCC-30G: 30m (98ft)



VDC-5
RF Dubbing Cable for BVU-800/820, BVW-10/40
5m long (16ft)

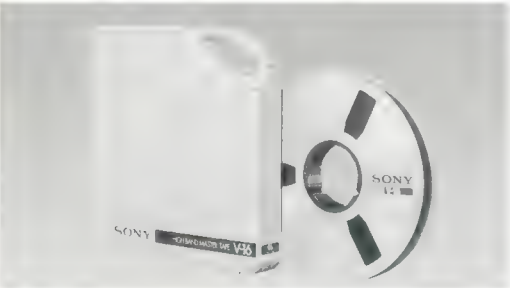


CABLE REFERENCE CHART

	CCJ Cables	CCQ Cables	CCT Cables	CCW Cables	CCY Cables	CCZ Cables	CCQZ Cables	CCZQ Cables	RCC-C Cables	RCC-G Cables	VDC-5
BVH-1100A/1180 series	○	—	—	—	○	—	—	—	—	—	—
BVH-2000 series	—	—	—	—	○	—	—	—	—	○	—
BVH-500A series	—	○	—	—	—	—	—	○	—	—	—
DTR-2000	○	—	—	—	—	—	—	—	—	○	—
BVU-50/110 series	—	○	—	—	—	—	—	○	—	—	—
BVU-800/820 series	—	—	—	—	○	—	—	—	—	○	○
BVW-10/40 series	—	—	—	—	—	—	—	—	—	○	○
BVP-110 series	—	○	—	—	—	—	○	—	—	—	—
BVP-250/300A/330 series	—	○	—	—	—	—	○	—	—	—	—
CCU-300 series	—	—	—	○	—	—	—	—	—	—	—
DCU-300 series	—	—	○	○	—	—	—	—	—	—	—
BVT-800 series	—	—	—	—	○	—	—	—	—	—	—
BVT-2000 series	—	—	—	—	○	—	—	—	—	—	—
BVS-500	—	—	—	—	—	—	—	—	○	—	○
BVE-800	—	—	—	—	—	—	—	—	○	○	—
BVE-3000 series	○	—	—	—	—	—	—	—	—	○	—
BVE-5000 series	○	—	—	—	—	—	—	—	—	○	—
BVG-100 series	—	○	—	—	—	—	—	—	—	—	—
BVV-1 with VA-1, 1V	—	—	—	—	—	○	○	—	—	—	—
BVP-1/3 with CA-3	—	—	—	—	—	○	—	○	—	—	—
BVP-250/300A/330A with CA-300	—	—	—	—	—	○	—	○	—	—	—

V-16 SERIES 1-INCH VIDEO TAPES

* For more information, please refer to the brochure "Sony Broadcasting Video Tape".



V-16-18A/34A/64A/96A
(V-16 Tape with Carrying Case)

Model	Reel size (inches)	Length m (feet)	Playing time (min.)		Weight* kg (lb)
			NTSC	PAL/SECAM	
V-16-18A	8	265 (869)	18	18	1.6 (3.5)
V-16-34A	8	500 (1,640)	34	34	1.9 (4.2)
V-16-64A	9	940 (3,084)	64	65	2.5 (5.5)
V-16-96A	10½	1,410 (4,626)	96	98	3.3 (7.3)

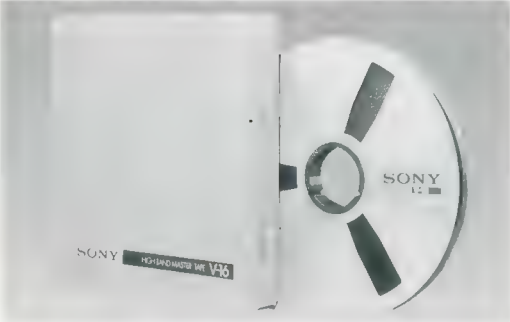
* with case



V-16-18SP/34SP/64SP/96SP
(V-16 Tape with Shipper CL-16SP)

Model	Reel size (inches)	Length m (feet)	Playing time (min.)		Weight* kg (lb)
			NTSC	PAL/SECAM	
V-16-18SP	8	265 (869)	18	18	2.0 (4.4)
V-16-34SP	8	500 (1,640)	34	34	2.3 (5.1)
V-16-64SP	9	940 (3,084)	64	65	2.9 (6.4)
V-16-96SP	10½	1,410 (4,626)	96	98	3.7 (8.2)

* with shipper



V-16-126/156/188

Model	Reel size (inches)	Length m (feet)	Playing time (min.)		Weight* kg (lb)
			NTSC	PAL/SECAM	
V-16-126	11.75	1,850 (6,069)	126	128	4.4 (9.7)
V-16-156	12.5	2,290 (7,513)	156	158	4.9 (10.8)
V-16-188	14	2,755 (9,039)	188	191	6.0 (13.2)

* with case

OPTIONAL ACCESSORIES FOR 1-INCH TAPES



9" metal reel
R1-9V



10" metal reel
R1-10V



11" metal reel
R1-11V

12" metal reel
R1-12V

14" metal reel
R1-14V

Flame retardant shipper
CL-16SP

Carrying case
CL-16

BR SERIES U-matic TAPES AND BETACAM TAPES



KCS-10BR/20BR

Model	Tape length m (ft)	Playing time (min)	Weight g (lb)
KCS-20BR	129 (423)	20	320 (0.7)
KCS-10BR	72 (236)	10	270 (0.6)



KCA-10BR/20BR/30BR/60BR

Model	Tape length m (ft)	Playing time (min)	Weight g (lb)
KCA-60BR	358 (1174)	60	580 (1.2)
KCA-30BR	186 (610)	30	470 (1.0)
KCA-20BR	129 (423)	20	420 (0.9)
KCA-10BR	72 (236)	10	370 (0.8)



BETACAM HG-10/20 Betacam Tape

Model	Tape length m (ft)	Playing time (min)		Weight g (lb)
		NTSC/PAL-M	PAL/SECAM	
HG-20	150 (500)	24	20	248 (0.5)
HG-10	75 (250)	12	10	180 (0.4)

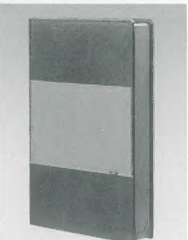
OPTIONAL ACCESSORIES FOR U-matic TAPES



KC-1C
Head cleaning videocassette tape for regular U-matic videocassette tape recorder/player



KCS-1C
Head cleaning videocassette tape for portable U-matic video-cassette recorder



CL-25
Hard case for KCA type regular U-matic videocassette tape



CL-25SP
Shipper for KCA type U-matic videocassette tape



HG-5CL
Head cleaning videocassette tape for Betacam recorder/player

WIRELESS MICROPHONE SYSTEMS

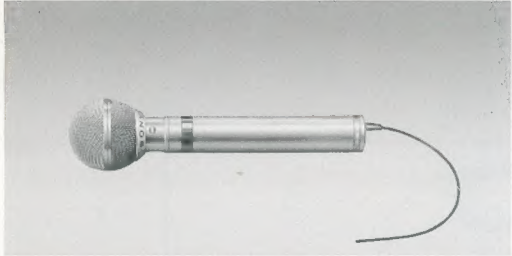
* For more information, please refer to the brochure "Sony Wireless Microphone Systems".



WRT-27/27A UHF Transmitter

- Crystal resonator provides stable operation that is virtually independent of ambient temperature variation
- Transmitter accepts dynamic, condenser, or any other type of microphone with a plug adaptor
- Suitable for inconspicuous use
- LED battery checker indicates battery condition and gives a signal when input exceeds the standard level (can be adjusted with built-in attenuator)
- 2-hour continuous operation with a single 9V transistor-radio type battery (Sony 006P)

Dimensions: 59(W) x 93(H) x 20mm(D) (2.3 x 3.7 x 0.8")
Weight: 180 g (6.3 oz) without battery



WRT-57 UHF Wireless Microphone

- Wide dynamic range, thus providing greater linearity in frequency modulation
- Excellent sound quality due to incorporation of back electret condenser microphone capsule
- Since UHF band requires only a 16cm (400MHz Band) antenna wire, greater signal emission efficiency is attained
- The shorter UHF band wireless microphone antenna looks neater on the TV screen and permits freer movement by performers

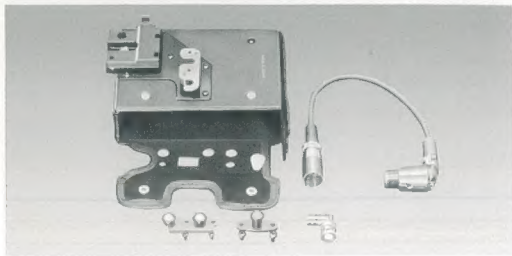
Dimensions: 41ø x 170mm(L) with wind screen (1.6 x 1.7")
Weight: 190 g (7 oz) with battery



WRR-27 UHF Tuner

- Compact antenna system for UHF band operation
- Bandpass filter including helical resonator in the RF-stage for excellent spurious rejection
- Approximately 5 hours of continuous operation on 6 Sony SUM-3S (AA size) batteries
- 3-mode meter indicating RF input level, audio output level, and battery condition
- Audio output monitoring through the supplied earphone
- Optional shoulder strap for handling convenience. The antenna can be attached to this strap

Dimensions: 148(W) x 116(H) x 35mm(D) (5.8 x 4.6 x 1.4")
Weight: 800 g (1 lb 12 oz) with batteries



BTA-27 Tuner Attachment Kit

- Specially designed tuner attachment kit for the BVW-1/3 Betacam VTR unit
- A set of leatherette case and fittings for WRR-27 tuner

Dimensions: 133(W) x 166(H) x 60mm(D) (5.2 x 6.5 x 2.4")
Weight: 270 g (9.5 oz) case only

MICROPHONES* AND AUDIO EQUIPMENT

* For more information, please refer to the brochure "Sony Professional Microphones".



C-74

- Super uni-directional condenser microphone
- Suitable for ENG with portable video camera
- Optional microphone cables:
EC-0.5C2F (XLR-3-pin—XLR-3-pin)
EC-cables (XLR-3-pin—XLR-3-pin)
- Applicable stand: B-302 (with an optional grip GP-3)



F-115

- Omni-directional dynamic microphone, all weather type
- With cable and plug*
- Applicable stand: A-12/12N, A-16/16N, B-302, CRS-3P/3N
- * XLR-3-11C for Europe
XLR-3-12C for General area



CRS-3N Cradle Suspension

Available screw 1/4" 27 thread, grip 19—24mmø

CRS-3P

Available screw 1/2" pipe thread, grip 16—24mmø



C-76

- Super uni-directional condenser
- Suitable for studio microphone
- Optional microphone cables:
EC-cables (XLR-3-pin—XLR-3-pin)
- Applicable stand: B-302 (with an optional grip GP-3)



ECM-50PSW/PBW

- Omni-directional electret condenser microphone
- Weighs only 8.5 g
- Optional microphone cable:
EC-cables (XLR-3-pin—XLR-3-pin)



AC-148F AC Power Supply

Allows a condenser or electret condenser microphone to operate on an external power supply without additional connectors or cables.

System: 2-channel external power supply
Power requirements: AC 100 - 120, 220 - 240V
Output voltage: DC 48V
Dimensions: 201(W) × 74 (H) × 169mm(D)
(7.9 × 2.9 × 6.7")
Weight: 2 kg (4 lb 2 oz)



F-760

- Uni-directional Dynamic microphone
- Multi purpose microphone
- Applicable stand: A12/12N, A16/16N, B-302, CRS-3P/3N



B-302 Boom Stand

Available screws 1/2" pipe thread
1/4" thread
Boom length 1,030mm
Stand height 990 - 1,770mm
Weight 5 kg (11 lb)



EC-10C2 (10m) EC-20C2 (20m) EC-30C2 (30m)

Microphone Cable with XLR—3-pin Connector



TC-D5 PRO

Professional Stereo Cassette Deck

System: 4-track 2-channel stereo/mono
Power requirement: DC 3V
Weight: 1.7 kg (3 lb 12 oz)
Dimensions: 237(W) × 48 (H) × 168mm(D)
(9.3 × 1.9 × 6.6")



MX-P42 Portable Automatic Mixer

Compact microphone mixer with channel-wise ALC (Automatic Level Control) for maximum handling ease in the field

Inputs: MIC (4-channels): -70dBs (-30dBs max.), -60dBs (-20dBs max.), -50dBs (-10dBs max.), or -40dBs (0dBs max.) selectable, low impedance, balanced, Cannon
LINE: -20dBs (0dBs max.) or +4dBs (+24dBs max.), 10k Ω, balanced, Cannon
MONITOR IN (2 channels): -20dBs ~ +10dBs, 7k Ω, unbalanced, SMC-type
Outputs: MAIN (2 channels): +4dBm (+20dBm max.), 600Ω, balanced, Cannon
SUB (2 channels): -20dBm (-4dBm max.) or -64dBm (-48dBm max.), 600Ω, balanced, Cannon

Power requirement: DC 9V (LR-14 × 6)
AC with AC adaptor
Dimensions: 295(W) × 70(H) × 200mm(D)
(11.6 × 2.8 × 7.9")
Weight: 3.9 kg (8 lb 10 oz) with batteries

PRODUCTS REFERENCE CHART

(As of September 1983)

MODEL	NTSC	PAL	SECAM	PAL-M	MODEL	NTSC	PAL	SECAM	PAL-M
BVW-1	○	○	○		BVE-5000	○	○		
BVW-3	○	○	○	○	BVE-3000	○	○	○	
BVV-1	○	○	○	○	BVE-800	○	○	○	○
BVP-1	○	○	○		BVT-2000	○	○	○	○
BVP-3	○	○	○	○	BVT-800	○	○	○	
BVW-10	○	○	○	○	BKH-2100	○			
BVW-20	○	○	○		BKH-2300		○	○	
BVW-40	○	○	○		BKH-2400				○
BVH-2500	○	○			BVG-100	○	○	○	○
BVH-2000	○	○	○	○	BVG-1500	○	○	○	
BVH-1180	○	○	○		BVG-1600	○	○	○	
BVH-500A	○	○	○	○	BVF-5	○	○	○	○
BVU-820	○	○	○	○	BVF-50	○	○	○	○
BVU-800	○	○	○	○	CCU-300	○	○	○	○
BVU-110	○	○	○	○	DCU-300	○	○	○	○
BVU-50	○	○	○		BVX-30	○			○
BVP-330A	○	○	○	○	DTR-2000	○	○	○	○
BVP-110	○	○	○	○					
BVP-300A	○	○	○	○					
BVP-250	○	○	○						
BVM-1900	○								
BVM-2000		○	○						
BVM-2002PS		○	○						
BVM-1201	○								
BVM-1301		○	○	○					
BVM-1302P		○							
BVM-4050	○								

Index

A A12×9BERM 30 A14×9BERM 30 A17×8.5BESM 30 A17×9BERM 30 A22×12.5BERM 30 AC-148F 52 AC-500/500CE 45	B B-302 52 BC-1W/1WCE 46 BC-210/210CE 45 BK-31 20 BK-101/102/103 43 BK-302/303/305 28 BK-801/802/803/804/805/806/811 15 BK-807/808/809/810 38 BK-1002 38 BK-2006/2007/2008 10 BK-5001/5002A/5003 38 BK-5004/5005/5006 38 BK-5021/5022A/5031/5032 38 BKE-3001/3002/3005/3006 38 BKH-2011/2012/2013/2014 10 BKH-2015/2016/2017/2018 10 BKH-2100/2300/2400 10, 42 BP-90 45 BTA-27 51 BVE-800 37 BVE-3000/3000P 36 BVE-5000/5000P 36 BVF-5 28 BVF-50/50CE 28 BVG-100/100PS 43 BVG-1500/1500PS 44 BVG-1600/1600PS 44 BVH-1180/1180PS 12 BVH-2000/2000PS/2000PM 8 BVH-2500/2500PS 6 BVH-500A/500AP/500APM 11 BVM-1201/1301P/1301S/1301PM 33 BVM-1302P 34 BVM-1900/2000P/2000S 32 BVM-2002PS 34 BVM-4050 35 BVP-1/1P/1S 2, 26 BVP-3/3P/3S/3PM 2, 22 BVP-110/110P/110S/110PM 25 BVP-250/250P 23 BVP-300A/300AP/300AS/300APM 24 BVP-330A/330AP/330AS/330APM 21 BVR-10 20 BVR-30 20 BVR-500 13 BVR-800 16 BVR-820 16 BVS-500 37 BVT-800/800PS(P)/800PS(S) 41 BVT-2000/2000P/2000S/2000PM 41 BVU-50/50P/50S 19 BVU-110/110P/110S/110PM 18 BVU-800/800P/800S/800PM 15 BVU-820/820P/820S/820PM 14 BVV-1/1PS 2 BVW-1/1P/1S 1 BVW-3/3P/3S/3PM 1 BVW-10/10P/10S/10PM 4 BVW-20/20P/20S 3 BVW-40/40P/40S 4 BVX-30/30PM 20	C C-74 52 C-76 52 CA-3 2 CA-300 2 CCJ cables 47 CCQ cables 47 CCQZ cables 47 CCT cables 47 CCU-300/300P/300PM 27 CCW cables 47 CCY cable 47 CCZ cables 47 CCZO cables 47 CDP-5001/5001CE 38 CL-16/16SP 49 CL-25/25SP 50 CLP-550/550PS 13 CRS-3N/3P 52	D DC-100 46 DC-210 29 DC-300 29 DC-310 29 DCU-300/300P/300PM 27 DTR-2000 12	E EC-10C2/20C2/30C2 52 ECM-50PSW/PBW 52	F F-115 52 F-760 52	H HG-5CL 50 HG-10/20 50 HT-500A 13 HT-2000 10	J J13×9B4 IRS 30 J13×9C IRS 30 J15×8.5BIE 30 J15×9.5B4 KRS 30 J15×9.5C KRS 30 J20×8.5BIE 30	K KC-1C 50 KCA-10BR/20BR/30BR/60BR 50 KCS-10BR/20BR 50 KCS-10C 50	M Memory Battery 28 MX-P42 53	N N10×11BRM 30 N14×9ERM 30 NP-1 46	R R1-9V/10V/11V/12V/14V 49 RCC-5G/10G/30G 10, 15 RCC-C cables 48 RCC-G cables 48 RMM-301 29	S S-76 19	T TC-D5 PRO 53	V V-16-126/156/188 49 V-16-18A/34A/64A/96A 49 V-16-18SP/34SP/64SP/96SP 49 VA-1 2 VA-1V/1VP/1VS 2 VDC-5 48	W WRR-27 51 WRT-27/27A 51 WRT-57 51
--	---	--	--	--	----------------------------------	--	--	--	--	--	---	---------------------	--------------------------	--	---

[SONY GROUP]

North America

Sony Broadcast Products Company (U.S.A.)

1600 Queen Anne Road
Teaneck, New Jersey 07666
U.S.A.
Phone: (201) 835-5200
Fax: (201) 833-9645
677 River Oaks Parkway
San Jose, CA 95134
U.S.A.
Phone: (408) 946-9090
Telex: 424595 SONY UI

Sony of Canada Ltd.

411 Gordon Baker Road,
Willowdale, Ontario, M2H 2S6,
CANADA
Phone: (416) 499-5111
Telex: 06-986773

Europe/Middle East/Africa

Sony Broadcast Ltd. (U.K.)

City Wall House
Basing View, Basingstoke
Hampshire RG21 2LA
United Kingdom
Phone: 0256-55011
Telex: 858424

Central & South America

Sony Corporation of Panama, S.A.

Apartado 4317
Panama 5
Rep. of Panama
Phone: 61-1055
Telex: 2059 SONY PA

Sony de Venezuela, S.A.

Apartado 69096
Caracas 1070
Venezuela
Phone: 02-239-3776
Telex: 25571 SONYVC

Sony Motorradio-Com. e Ind. Ltda.

Rua Inocencio Tobias No. 125
Parque Industrial Thomaz Edson
Barra Funda
Caixa Postal No. 30618
Sao Paulo, S.P.
Brazil
Phone: (11)-826-1177
Telex: 1121677 SONY BR

Oceania

Sony (Australia) Pty., Ltd.

P.O. Box 377
33-39
Talavera Road
Northryde, N.S.W 2113
Australia
Phone: 02-887-6666
Telex: AA24254

Asia

Sony Corporation of Hong Kong Ltd.

St. George's Building 22nd Fl.
No. 2 Ice House Street
Hong Kong
Phone: (5)-228061
Telex: 73249

Japan

Sony Corporation

Communication Products Group
4-14-1, Asahi-cho, Atsugi-shi
Kanagawa-ken, 243 Japan
Phone: 0462 (30)-5111
Telex: 3872306 SONY ATJ

[DISTRIBUTORS]

Central & South America

Carsa (Peru)

Phone: 321510
Telex: 20222

C.C.C. de Colombia (Colombia)

Phone: 267-8100
Telex: 45495

Color Cassettes, S.A. (Mexico)

Phone: 549-3100
Telex: 383-1777305

Colrey, S.A. (Uruguay)

Phone: 20-8135
Telex: 874

Continental S.A.C.I.F. (Argentina)

Phone: 45-9899
Telex: AR 021589

Sonivision, S.A. (Costa Rica)

Phone: 227725
Telex: 2645

Telecuador C. Ltd. (Ecuador)

Phone: 231-387
Telex: 022178

V and MF System (Curaçao)

Phone: 70355
Telex: 1019

Ingeson (Chile)

Phone: 377217
Telex: 40273 Vican CL

Asia

Fook Yuen Elec. Co., Ltd. (Hong Kong)

Phone: 5-451123
Telex: 76281 LBC HX

Cinchy Corporation (Taiwan)

Phone: (02) 5633811
Telex: 11154 SHINLEE

Setron Electronics Private Ltd. (Singapore)

Phone: 65-622344
Telex: SETRONY RS 22022

Sunshine Co., Ltd. (Thailand)

Phone: 2214186
Telex: 82055 SUNSHY TH

Solid Industries Inc. (Philippines)

Phone: 599211
Telex: 63365PN

Dongyoo Trading Co., Ltd. (Korea)

Phone: 783-5896
Telex: K22551 DOYOOCO

PT GALVA Corporation (Indonesia)

Phone: 340041
Telex: 44405 GALVA IA

Siedles Cineradio (Sri Lanka)

Phone: 27311
Telex: 21656 SIEDLW CE

Sony Corporation

Printed in Japan ©SONY